

Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

JAN 1 4 2004

10 CFR 50.55a

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D. C. 20555

Gentlemen:

In the Matter of ) Docket No.50-390 Tennessee Valley Authority )

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 - AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) SECTION XI INSERVICE INSPECTION (ISI) SUMMARY REPORT FOR THE FIFTH CYCLE OF OPERATION

The purpose of this letter is to provide the ISI Summary Report to NRC within 90 days of completion of the inspections which occurred at the end of the refueling outage as required by ASME Section XI, IWA-6230 of the 1989 Edition of the ASME Section XI Code. The Cycle 5 Refueling Outage is the third of three outages in the Second Period of the First Inservice Inspection Interval. To coincide with the Cycle 7 refueling outage, the first interval has been extended in accordance with IWA-2430(d) to end on December 31, 2006.

This summary report documents the results of the ASME Section XI examinations, tests, repairs, and replacements performed during the fifth cycle of operation of TVA's WBN Unit 1. Included in this Cycle 5 Summary Report is the summary of ISI examinations and results; summary of steam generator tube eddy current examinations and results; summary of pressure tests and results; and, summary of repairs and replacements as documented on ASME Forms, NIS-2.

A047

U.S. Nuclear Regulatory Commission Page 2

JAN 1 4 2004

There are no regulatory commitments identified in this letter. If you have any questions concerning the Cycle 5 Summary Report, please contact me at (423) 365-1824.

Sincerely,

P. L. Pace

Manager, Site Licensing and Industry Affairs

# Enclosure

1. ASME Section XI Inservice Inspection Summary Report Fifth Refuleing Cycle

#### cc (Enclosure):

NRC Resident Inspector Watts Bar Nuclear Plant 1260 Nuclear Plant Road Spring City, Tennessee 37381

Ms. Margaret H. Chernoff, Project Manager U.S. Nuclear Regulatory Commission MS 08G9
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852-2738

U.S. Nuclear Regulatory Commission Region II Sam Nunn Atlanta Federal Center 61 Forsyth St., SW, Suite 23T85 Atlanta, Georgia 30303

# ENCLOSURE

WATTS BAR NUCLEAR PLANT UNIT 1
ASME SECTION XI INSERVICE INSPECTION SUMMARY REPORT
FIFTH REFUELING CYCLE

# TENNESSEE VALLEY AUTHORITY'S WATTS BAR NUCLEAR PLANT UNIT 1

ASME SECTION XI
INSERVICE INSPECTION
SUMMARY REPORT

FIFTH REFUELING CYCLE

TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1 Commercial Service Date: May 27, 1996 Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization: N/A National Board Number for Unit: N/A

# CONCURRENCE AND APPROVAL SHEET

Name	Title	Signature	Date
Prepared by:	ISI	1 00	
K. E. Casey	Program Engineer	Sum Elasy	12/09/2003
Concurred by:		<i>(</i> ) , <i>(</i> )	,
T. L. Hale	ISO ISI/NDE Coordinator	Tany & Hall	12/04/2003
J. W. Whitaker	ISO NDE Level III	Jal W. Ah	titates 12/16/03
G. L. Johnson	System Pressure Test Engineer	Jary John	12/13/03
E. D. Camp	Steam Generator Specialist	Smooth Con	12Dec 3
J. K. McClanahan	Corporate ISI Specialist	Jeny K. M. Chin	L 12/16/03
M. D. Davis	Component Engineering Manager	M. Ve Wayn Da	rio 1/1/2004
Approved by:			
B. G. Briody	System Engineering Manager	Tuon Buoo	ly 1/8/2004

Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization: N/A National Board Number for Unit: N/A

N/A

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**TENNESSEE VALLEY AUTHORITY** Owner:

Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization:

N/A National Board Number for Unit: N/A

# **Cover Sheet**

Tennessee Valley Authority Owner:

Address of Corporate Office: Chattanooga Office Complex

1101 Market Street

Chattanooga, Tennessee 37402-2801

Name and Address of Nuclear Power Watts Bar Nuclear Plant

> Plant: P.O. Box 2000

> > Spring City, Tennessee 37381-2000

Applicable Nuclear Power Units: Watts Bar Nuclear Plant, Unit 1

Commercial Operation Date: May 27, 1996

Document Completion Date: December 9, 2003

TENNESSEE VALLEY AUTHORITY Owner:

Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402 Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization:

N/A National Board Number for Unit: N/A

# NIS-1 FOR THE ISI EXAMINATION PLAN

		<u> </u>	· · · · · · · · · · · · · · · · · · ·										
1. Owner <u>Te</u>	Tennessee Valley Authority, 1101 Market St. Chattanooga, TN 37402-2801 (Name and Address of Owner)												
	,												
2. Plant W	Watts Bar Nuclear Plant, P.O. Box 2000, Spring City, TN 37381-2000 (Name and Address of Plant)												
5. Commercial Serv	vice Date <u>May 27, 1996</u> 6.	. National Board Nu	mber for Unit N	one Assigned									
7. Components Insp	pected			_									
Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.									
Examination Plan, for List of Components													

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization:

A/A

National Board Number for Unit: N/A

		FORM NIS	-I (Duck)		
8. Examinati	on Dates: March 22,	2002	to October 20	, 2003	
9. Inspection	Period Identification:	Second			
10. Inspection	Interval Identification:	First			
11. Applicable	Edition of Section XI:	1989	Addenda N/A		
12. Date/Revis	ion of Inspection Plan:	06/03/2003/1-7	TRI-0-10, Revision	10	
	Examinations and Test g status of work required				it
14. Abstract of	Results of Examination	ns and Tests. See	Appendix I		
15. Abstract of	Corrective Measures.	No corrective mea	sures required this	inspection.	
	Authorization No. (if app	<del></del>	N/A	Expiration Date	N/A
Date /2 /	39 2003 Sigr	ned Tennessee	lalley Authority	By from E	asery_
Date			Owner	By for El	asing
Date/2/					assy
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Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization: N/A

National Board Number for Unit: N/A

# NIS-1 FOR STEAM GENERATOR TUBE EDDY CURRENT EXAMINATIONS

#### FORM NIS-1 OWNERS' REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules 1. Owner Tennessee Valley Authority, 1101 Market St. Chattanooga, TN 37402-2801 (Name and Address of Owner) 2. Plant Watts Bar Nuclear Plant, P.O. Box 2000, Spring City, TN 37381-2000 (Name and Address of Plant) 3. Plant Unit One (1) 4. Owner Certificate of Authorization (if required) Not Required 5. Commercial Service Date May 27, 1996 6. National Board Number for Unit None Assigned 7. Components Inspected Manufacturer Component or Manufacturer or Installer State or National Serial No. Province No. Board No. Appurtenance or Installer Tennessee Valley Authority N/A See Appendix II, N/A N/A Steam Generator Tube Examination Summary 1-SGEN-068-SG1 Westinghouse Electric Corp 1591 N/A W10286 1-SGEN-068-SG2 Westinghouse Electric Corp 1592 N/A W10287 1-SGEN-068-SG3 Westinghouse Electric Corp 1593 N/A W10288 1-SGEN-068-SG4 Westinghouse Electric Corp 1594 N/A W10289

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

عيام الحيادي محرجات

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization: N/A National Board Number for Unit: N/A

FORM NIS-1 (Back)
8. Examination Dates: September 19, 2003 to October 11, 2003
9. Inspection Period Identification: Second
10. Inspection Interval Identification: First
11. Applicable Edition of Section XI: 1989 Addenda N/A
12. Date/Revision of Inspection Plan: September 11, 2003/1-SI-68-907, Revision 11
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix II
14. Abstract of Results of Examinations and Tests. See Appendix II
15. Abstract of Corrective Measures. See Appendix II
We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.  Certificate of Authorization No. (if applicable) N/A Expiration Date N/A  Date 12 20 3 Signed Tennessee Valley Authority By
Owner
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Termes See and employed by
described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Inspector's Signature Commissions 7N 2534  National Board, State, Province and Endorsements
Date

Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization:

N/A National Board Number for Unit: N/A

#### **NIS-1 FOR PRESSURE TESTS**

1. Owner <u>Te</u>	nnessee valley Audiority, 1101 M	Indian Ct. Chattana	TNT 27402 20	201									
	Tennessee Valley Authority, 1101 Market St. Chattanooga, TN 37402-2801 (Name and Address of Owner)												
2. Plant W	Watts Bar Nuclear Plant, P.O. Box 2000, Spring City, TN 37381-2000												
(Name and Address of Plant)													
3. Plant Unit Or	at Unit One (1) 4. Owner Certificate of Authorization (if required) Not Required												
5. Commercial Serv	rice Date May 27, 1996 6.	National Board Nu	mber for Unit N	Ione Assigned									
7. Components Insp	<del> </del>			_									
components mor		Manufacturer	i										
Component or	Manufacturer	or Installer	State or	National									
Appurtenance	or Installer	Serial No.	Province No.	Board No									
See Appendix III,	Tennessee Valley Authority	N/A	N/A	N/A									
Pressure Test													
Summary		<u> </u>		ļ									
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Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

TENNESSEE VALLEY AUTHORITY

Chattanooga Office Complex

1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization: National Board Number for Unit: N/A

FORM NIS-1 (Back) 8. Examination Dates: September 11, 2003 to October 23, 2003 9. Inspection Period Identification: Second 10. Inspection Interval Identification: First 11. Applicable Edition of Section XI: 1989 Addenda N/A 12. Date/Revision of Inspection Plan: September 5, 2003/TI-100,009, Revision 5 13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix III 14. Abstract of Results of Examinations and Tests. See Appendix III 15. Abstract of Corrective Measures. See Appendix III We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI. Certificate of Authorization No. (if applicable) \_\_\_\_\_ N/A\_ Date Date 16 2003 Signed Tennessee Valley Authority Owner CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, and tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Snuc M. Esmigh, Commissions TN 2534
Inspector's Signature National Board, State, Pro National Board, State, Province and Endorsements Date 1/7 2004

Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Cértificate of Authorization: N/A National Board Number for Unit: N/A

# INTRODUCTION AND SUMMARY

#### Introduction

As required by ASME Section XI, IWA-6200, this summary report documents the results of the ASME Section XI examinations, tests, repairs and replacements performed during the fifth cycle of operation of TVA's Watts Bar Nuclear Plant's Unit 1. The cycle 5 refueling outage is the third of three outages in the Second Period of the First Inservice Inspection Interval. To coincide with the cycle 7 refueling outage, the first interval has been extended in accordance with IWA-2430(d) to end on December 31, 2006.

Included in this cycle 5 Summary Report is: the summary of ISI examinations and results; summary of steam generator tube eddy current examinations and results; summary of pressure tests and results; and, summary of repairs and replacements as documented on ASME Form NIS-2s.

#### Summary

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ISI examinations were performed in accordance with Technical Requirement Instruction 1-TRI-0-10, "ASME Section XI ISI/NDE Program." Table 1 provides an overview of the ISI examinations that were performed during cycle 5. The results of all the examinations met the applicable acceptance standards. Examination of the pressurizer nozzle-to-vessel welds and two pipe-to-valve welds requires a request for relief be prepared as the required code coverage could not be obtained. The examination results for the ISI components are summarized in Appendix I.

Included in 1-TRI-0-10 are the augmented requirements to perform examination of the Reactor Coolant Pump Flywheels in accordance with Regulatory Guide 1.14, "Reactor Coolant Pump Flywheel Integrity." Examination for each flywheel was acceptable. The examination results are also summarized in Appendix I.

Eddy current testing of the steam generator tubes was performed in accordance with Surveillance Instruction 1-SI-68-907, "Steam Generator Tubing Inservice Inspection and Augmented Inspection." Three hundred tubes were plugged among all 4 steam generators and 148 hot leg top of tube sleeves were installed in steam generator 4 as a result of this inspection. The results are summarized in Appendix II.

Appendix III provides a summary of the system pressure tests performed for code credit during cycle 5. System pressure tests are implemented as defined in Technical Instruction TI-100.009, "ASME Section XI System Pressure Testing Program Basis Document." Individual system pressure test procedures are listed in the summary.

Appendix IV provides a summary of the repairs and replacements performed during cycle 5.
Included are the ASME Form NIS-2s, "Owners Report for Repair and Replacements:" Repairs and Replacements are documented in accordance with Standard Programs and Processes SPP-9.1, Part D, "Repair/Replacement of ASME Section XI Components."

TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1 Commercial Service Date: May 27, 1996

B 1 343

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization: N/A
National Board Number for Unit: N/A N/A

# TABLE 1 SUMMARY OF CYCLE 5 ISI EXAMINATIONS

Examination Category	item Number	Component Description	Number Examined						
Code Class 1 Components									
B-B	B2.11 B2.12	PRZ Shell-to-Head Weld PRZ Shell-to-Head Intersecting Longitudinal Weld	1 1						
B-D	B3.110 B3.120	PRZ Nozzle-to-Vessel Welds PRZ Nozzle Inside Radius Section	5 5						
B-G-2	B7.20 B7.50	Pressurizer Manway Bolting PPG Pressure Retaining Bolted Connections	1 4						
в-к	B10.10	PRZ Integrally Welded Attachment	4						
B-N-1	B13.10	Reactor Vessel Interior	1						
F-A of Code Case N-491	F1.40B	PRZ Support (upper)	1						
Code Class 1 a	nd 2 Risk-In	formed ISI Piping Welds							
R-A	R1.11 R1.16	Elements Subject to Thermal Fatigue Elements Subject to Intergranular	27						
	R1.18	Stress Corrosion Cracking Elements Subject to Flow Accelerated Corrosion	1 52						

Contract the second

Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization:

N/A National Board Number for Unit: N/A

#### SUMMARY OF REQUESTS FOR RELIEF (RFRs)

Two RFRs are required to be written for components examined during this inspection. Due to configuration of the pressurizer nozzle-to-vessel welds and Safety Injection System Piping welds, the required examination coverage could not be achieved. The RFRs will be submitted under separate letter to the NRC.

Proposed RFR 1-ISI-14

ISI Component Number(s):

WP-11, WP-12, WP-13, WP-14, and WP-15

Component Description:

Pressurizer Nozzle-to-Vessel Welds

Examination Category/Item No.: B-D/B3.110

**Report Numbers:** 

R0875, R0876, R0877, R0878, R0879

Summary:

Due to design configuration of the pressurizer nozzle to head welds, volumetric examination of the nozzle-to-head welds during the Unit 1 Cycle 5 refueling outage resulted in less than 100% of ASME code coverage being achieved. The

configuration of the nozzle-to-vessel weld prevents the performance of an ultrasonic scan from the nozzle side of the weld, thus preventing 100% examination of the required full volume. Volumetric examination of this component is required in accordance with Table IWB-2500-1, Examination Category B-D, Item Number B3.110. The full examination volume requirement is defined by Figure IWB-2500-7(b).

Proposed RFR 1-ISI-15

ISI Component Number(s):

RHRF-D054-09 and SIF-D086-02

Component Description:

Safety Injection System Piping Welds

Examination Category/Item No.: R-A/R1.11

**Report Numbers:** 

R0907 and R0899

Summary:

The design configuration of the subject austenitic pipe-tovalve welds provides single side access for examination.

Single side access precludes meeting the examination coverage and qualification demonstration requirements

required by 10 CFR 50.55a(b)(2)(xv)(A) and (xvi)(B).

TENNESSEE VALLEY AUTHORITY Owner:

Chattanooga, TN 37402

Chattanooga Office Complex 1101 Market Street

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization:

N/A

National Board Number for Unit: N/A

## APPENDIX I **CYCLE 5 ISI EXAMINATION PLAN**

The following examination plan provides the list and results of examinations performed during the fifth cycle. This plan is sorted by examination category and item number and system. The headings are defined below:

System	System	Title Abbreviation										
	AFWS BDS CSS CVCS FWS PZR	Auxiliary Feedwater System Steam Generator Blowdown System Containment Spray System Chemical and Volume Control System Feedwater System Pressurizer		Reactor Coolant Pump Reactor Coolant System Residual Heat Removal System Reactor Vessel Safety Injection System								
Component Number	ISI Con	ISI Component Identifier										
ISO Drawing	ISI Dra	wing Number										
Category	Code E	xamination Category										
Item Number	Code It	em Number	Code Item Number									
	Examination Requirement											
Exam Requirement	Examin	nation Requirement										
Exam Requirement	Examin 89E-01 P89001 AUG-01	code Class 1, 2 or 3 Item examined per ASME Section XI for first interval code Item examined per the requirements of preservice credit (i.e. repaired/replaced Reactor Coolant Pump Flywheel Augm 1.14	credit the 198 litem)	9 Edition of ASME Section XI for								
Exam Requirement  Exam Scheduled	89E-01 P89001 AUG-01	Code Class 1, 2 or 3 Item examined per ASME Section XI for first interval code Item examined per the requirements of preservice credit (i.e. repaired/replaced Reactor Coolant Pump Flywheel Augm	credit the 198 litem)	9 Edition of ASME Section XI for								
·	89E-01 P89001 AUG-01 Require	Code Class 1, 2 or 3 Item examined per ASME Section XI for first interval code Item examined per the requirements of preservice credit (i.e. repaired/replaced Reactor Coolant Pump Flywheel Augm 1.14	credit the 198 litem)	9 Edition of ASME Section XI for								
Exam Scheduled	89E-01 P89001 AUG-01 Require	Code Class 1, 2 or 3 Item examined per ASME Section XI for first interval code Item examined per the requirements of preservice credit (i.e. repaired/replaced Reactor Coolant Pump Flywheel Augm 1.14	credit the 198 litem)	9 Edition of ASME Section XI for								
Exam Scheduled  NDE Procedure	89E-01 P89001 AUG-01 Require TVA NI Calibra	Code Class 1, 2 or 3 Item examined per ASME Section XI for first interval code Item examined per the requirements of preservice credit (i.e. repaired/replaced Reactor Coolant Pump Flywheel Augm 1.14  ed Examination Method  DE Procedure Number	credit the 198 litem)	9 Edition of ASME Section XI for								

**Exam Report Examination Report Number** 

**Exam Results** Results of the Examination

P = PASS, examination met the applicable acceptance standards

F = FAIL, examination did not meet the applicable acceptance standards and was repaired or

replaced

"Applicable Comments" ·Comments

TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant:

WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization: National Board Number for Unit:

System	Component Number		ISO Drawing	Category	item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration	Exam Date	Exam Report	Exam Results	s Comments
PZR	WP-05	;	CHM-2570-C-01	B-B	B2.11	89E-01	UT	N-UT-19	WB-55	2003092	R0886	P	BNP-79 & WB-56
PZR	WP-09	:	CHM-2570-C-01	B-B	B2.12	89E-01	UΤ	N-UT-19	WB-55	2003092	R0887	Р	BNP-79 & WB-56
PZR	WP-11		CHM-2570-C-01	B-D	B3.110	89E-01	UT	N-UT-19	WB-55	2003091	R0875	Р	68.1% COVERAGE, SEE RFR1-ISI-14
PZR	WP-12	f	CHM-2570-C-01	B-D	B3.110	89E-01	UT	N-UT-19	WB-55	2003092	R0876	Р	68.1% COVERAGE, SEE RFR1-ISI-14
PZR	WP-13	į	CHM-2570-C-01	B-D	B3.110	89E-01	υτ	N-UT-19	WB-55	2003092	R0877	P	68.1% COVERAGE, SEE RFR1-ISI-14
PZR	WP-14	:	CHM-2570-C-01	B-D	B3.110	89E-01	υτ	N-UT-19	WB-55	2003092	R0878	P	68.1% COVERAGE, SEE RFR1-ISI-14
PZR	WP-15	:	CHM-2570-C-01	B-D	B3.110	89E-01	UT	N-UT-19	WB-55	2003092	R0879	P	68.1% COVERAGE, SEE RFR1-ISI-14
PZR	WP-11-NIR		CHM-2570-C-01	B-D	B3.120	89E-01	υT	N-UT-55	SQ-77	2003091	R0869	P	
PZR	WP-12-NIR		CHM-2570-C-01	B-D	B3.120	89E-01	UT	N-UT-55	SQ-77	2003091	R0865	P	
PZR	WP-13-NIR	ţ	CHM-2570-C-01	B-D	B3.120	89E-01	UT	N-UT-55	SQ-77	2003091	R0866	P	
PZR	WP-14-NIR	į	CHM-2570-C-01	B-D	B3,120	89E-01	UΤ	N-UT-55	SQ-77	2003091	R0867	Р	
PZR	WP-15-NIR	Ì	CHM-2570-C-01	B-D	B3.120	89E-01	υT	N-UT-55	SQ-77	2003091	R0868	Р	
PZR	1-MWCB-01	•	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	Р	
PZR	1-MWCB-02	;	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	Р	
PZR	1-MWCB-03	1	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	P	
PZR	1-MWCB-04	Ĺ	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	Р	
PZR	1-MWCB-05	į	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	Р	
PZR	1-MWCB-06	!	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	P	
PZR	1-MWCB-07	;	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	P	
PZR	1-MWCB-08	•	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	P	
PZR	1-MWCB-09	ş	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	P	
PZR	1-MWCB-10	•	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	P	
PZR	1-MWCB-11	;	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	P	
PZR	1-MWCB-12		CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	P	•
PZR	1-MWCB-13	i.	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	Р	
PZR	1-MWCB-14		CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	Р	
PZR	1-MWCB-15	:	CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	P	
PZR	1-MWCB-16		CHM-2570-C-03	B-G-2	B7.20	89E-01	VT-1	N-VT-1		2003092	R0885	P	
CVCS	CVC-04-BC	ž	ISI-0050-C-03	B-G-2	B7.50	89E-01	VT-1	N-VT-1		2003091	R0854	P	
RCS	RC-02-BC	ì	ISI-0365-C-01	B-G-2	B7.50	89E-01	VT-1	N-VT-1		2003091	R0862	P	
RCS	RC-03-BC	:	ISI-0365-C-01	B-G-2	B7.50	89E-01	VT-1	N-VT-1		2003091	R0864	P	
RCS	RC-03-BC	•	ISI-0365-C-01	B-G-2	B7.50	P89000	VT-1	N-VT-1		2003091	R0851	P	Examined 12 studs disassembled (mounted in valve body) Examined 12 nuts and washers removed
SIS	SI-05-BC	;	CHM-2758-C-13	B-G-2	B7.50	89E-01	VT-1	N-VT-1		2003091	R0853	Р	

Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant:

WATTS BAR NUCLEAR PLANT

P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization: National Board Number for Unit:

System	Component Number		ISO Drawing	Category	item Number	Exam Regulrement	Exam Scheduled	NDE Procedure	Calibration	Exam Date	Exam Report	Exam Results	Comments
								1 10 20 3 41 5		Duito	Tiopoit.	Tioounio	Commonio
RCP	RCP1CSABLT-01	:	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		2003091	R0855	P	
RCP	RCP1CSABLT-02	:	ISI-0447-C-01	B-G-2	B7.60	P89000		N-VT-1		2003091	R0855	P	
RCP	RCP1CSABLT-03	÷	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		2003091	R0855	Р	
RCP	RCP1CSABLT-04		ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		2003091	R0855	Р	
RCP	RCP1CSABLT-05	÷	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		2003091	R0855	Р	
RCP	RCP1CSABLT-06	:	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		2003091	R0855	P	
RCP	RCP1CSABLT-07	ŧ	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		2003091	R0855	P	
RCP	RCP1CSABLT-08	•	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		2003091	R0855	Р	
RCS	68-565-BC	ŗ	ISI-0365-C-01	B-G-2	B7.70	P89000	VT-1	N-VT-1		2003091	R0850	P	Examined 8 studs and 8 nuts, Valve S/N N56964-00-0095
	,	£											for valve 68-565
PZR	PZRLUG-1	Į	CHM-2570-C-01	B-K-1	B10.10	89E-01	MT	N-MT-6		2003092	R0911	P	
PZR	PZRLUG-2		CHM-2570-C-01	B-K-1	B10.10	89E-01	MT	N-MT-6		2003092	R0912	P	
PZR	PZRLUG-3	:	CHM-2570-C-01	B-K-1	B10,10	89E-01	MT	N-MT-6		2003092	R0913	P	
PZR	PZRLUG-4	ř	CHM-2570-C-01	B-K-1	B10,10	89E-01	MT	N-MT-6		2003092	R0914	P	
RV	RVINT	:	ISI-0427-C-05	B-N-1	B13.10	89E-01	VT-3	N-VT-8		2003093	R0917		REMOTE WITH COLOR AND B&W CAMERA
CVCS	1-62A-109	:	ISI-0063-C-04	F-A	F1.10B	P89000	VT-3	N-VT-1		2003100	R0921		WO# 02-003680-000 (Modified Portion Only)
PZR	PZRH-2		CHM-2570-C-04	F-A	F1.41B	89E-01	VT-3	N-VT-1		2003092	R0910	Р	· · · · · · · · · · · · · · · · · · ·
	FWF-D372-11		CHM-2671-C-06	R-A	R1.11	89E-01	UT	N-UT-76	WB-37	2003092	R0909	P	
AFWS	FWF-D372-17	:	CHM-2671-C-06	R-A	R1.11	89E-01	υr	N-UT-76	WB-37	2003092	R0892	P	
AFWS	FWS-069	:	CHM-2671-C-07	R-A	R1,11	89E-01	UT	N-UT-76	WB-37	2003092	R0890	P	
AFWS	FWS-070	:	CHM-2671-C-07	R-A	R1.11	89E-01	UT	N-UT-76	WB-37	2003092	R0889	P	
BDS	1-015A-T003-75	:	ISI-0508-C-04	R-A	R1.11	89E-01	UT	N-UT-76	WB-87	2003091	R0858	P	
BDS	1-015A-T007-26	,	ISI-0508-C-10	R-A	R1.11	89E-01	UT	N-UT-76	WB-86	2003092	R0906	P	
BDS	1-015A-T014-69		ISI-0508-C-03	R-A	R1.11	89E-01	UT	N-UT-76	WB-87	2003091	R0857	Р	
BDS	1-015A-T015-22		ISI-0508-C-02	R-A	R1.11	89E-01	UT	N-UT-76	WB-86	2003092	R0897	Р	
CSS	CSS-040		ISI-0400-C-03	R-A	R1.11	89E-01	UT	N-UT-64	WB-41	2003091	R0882	Р	
cvcs	CVCF-D034-14B		ISI-0005-C-01	R-A	R1.11	89E-01	UT	N-UT-64	WB-11	2003092	R0895	Р	
FWS	FWF-D369-24		CHM-2671-C-05	R-A	R1.11	89E-01	ហ	N-UT-76	WB-37	2003092	R0893	Р	
FWS	FWF-D370-06	•	CHM-2671-C-07	R-A	R1.11	89E-01	UT	N-UT-76	WB-37	2003093	R0920	P	
FWS	FWF-D371-23	į	CHM-2671-C-08	R-A	R1.11	89E-01	UT	N-UT-76	WB-37	2003091	R0852	P	
RCS	RCF-D233-12	:	ISI-0365-C-02	R-A	R1.11	89E-01	UT	N-UT-64	WB-40	2003091	R0863	P	
RCS	RCS-002		ISI-0365-C-01	R-A	R1.11	89E-01	UT	N-UT-64	WB-01	2003091	R0880	P	
RCS	RCS-009	1	ISI-0365-C-01	R-A	R1.11	89E-01	UT	N-UT-64	WB-01	2003091	R0881	Р	
RCS	RCS-032	•	ISI-0365-C-02	R-A	R1.11	89E-01	UT	N-UT-64	WB-40	2003092	R0896	P	
RHRS	RHRS-028	:	CHM-2636-C-02	R-A	R1.11	89E-01	UT	N-UT-64	WB-46	2003092	R0915	P	
RHRS	RHRS-114		CHM-2636-C-06	R-A	R1.11	89E-01	UT	N-UT-64	WB-41	2003092	R0916	P	
RHRS	SIF-D080-01		CHM-2758-C-02	R-A	R1.11	89E-01	UT	N-UT-64	WB-09	2003093	R0919	P	

Owner: TENNESSEE VALLEY AUTHORITY
Chattanooga Office Complex
1101 Market Street
Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant:

WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization: National Board Number for Unit:

<u>Sy</u> stem_	Component Number		ISO Drawing	Category	item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration	Exam Date	Exam Report	Exam Results	Comments
CYSTON		-	Diawing	Catogory	ivanibei	ricquirement	ochedaled	Tiocedule	Canbianon	Date	пероц	Nesuits	Comments
SIS	RHRF-D054-09	. (	CHM-2636-C-07	R-A	R1.11	89E-01	UΤ	N-UT-64	WB-02	2003092	R0907	P	50% COVERAGE, SEE RFR1-ISI-15
SIS	RHRS-148	:	CHM-2636-C-07	R-A	R1.11	89E-01	UT	N-UT-64	WB-01	2003092	R0903	P	
SIS	RHRS-172		CHM-2636-C-08	R-A	R1.11	89E-01	UT	N-UT-64	WB-02	2003092	R0898	P	
SIS	SIF-D086-02	١,	SI-0375-C-16	R-A	R1,11	89E-01	UT	N-UT-64	WB-11	2003092	R0899	P	50% COVERAGE, SEE RFR1-ISI-15
SIS	SIF-D090-12A		CHM-2758-C-08	R-A	R1,11	89E-01	UT	N-UT-64	WB-01	2003092	R0894	P	
SIS	SIS-103	. (	CHM-2758-C-08	R-A	R1.11	89E-01	UT	N-UT-64	WB-33	2003092	R0888	P	
SIS	SIS-200A	. 1	ISI-0375-C-13	R-A	R1.11	89E-01	UT	N-UT-64	WB-69	2003092	R0900	P	
CVCS	CVCF-D036-10H	٠ ١	ISI-0005-C-01	R-A	R1.16	89E-01	UT	N-UT-64	WB-11	2003092	R0904	Р	
AFWS	103BE374	F	FAC Program	R-A	R1.18	89E-01	υτ	TI-31.21			R0928	Р	
AFWS	103BE375	. F	FAC Program	R-A	R1.18	89E-01	UT	TF31,21			R0928	P	
AFWS	103BE465	i f	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0926	P	
AFWS	103BE466	. I	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0926	Р	
AFWS	103BE531	F	FAC Program	R-A	R1.18	89E-01	υτ	TI-31.21			R0924	P	
AFWS	103BE611	F	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0931	P	
AFWS	103BN376	; F	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0928	P	
AFWS	103BN467	. F	FAC Program	R-A	R1.18	89E-01	UΤ	TF31.21			R0926	P	
AFWS	103BN532 ;	( I	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0924	Р	
AFWS	103BN612	. 1	FAC Program	R-A	R1.18	89E-01	UT	TI-31.21			R0931	P	
BDS	115E019	· F	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0933	P	
BDS	115E038		FAC Program	R-A	R1.18	89E-01	UΤ	TF31.21			R0935	Р	
BDS	115E066	<u>`</u> {	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0944	Р	
BDS	115E273	, 1	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0941	P	
BDS	115E313		FAC Program	R-A	R1.18	89E-01	υτ	TF31.21			R0943	P	
BDS	115P004	, F	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0932	P	
BDS	115P006	. F	FAC Program	R-A	R1.18	89E-01	UΤ	TF31.21			R0932	Р	
BDS	115P020	; F	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0933	P	
BDS	115P027	F	FAC Program	R-A	R1.18	89E-01	υτ	TF31.21			R0934	P	
BDS	1101 000	F	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0935	P	
BDS	115P042		FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0936	P	
BDS	115P067		FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0944	Р	
BDS	115P074	, ł	FAC Program	R-A	R1.18	89E-01	υŢ	TI-31.21			R0945	P	
BDS	115P090	, f	FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0937	P	
BDS	115P109		FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0937	Р	
BDS	115P112		FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0937	Р	
BDS	115P183		FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0939	Р	
BDS	115P190		FAC Program	R-A	R1.18	89E-01	υT	TF31.21			R0938	P	
BDS	115P202	; F	FAC Program	R-A	R1.18	89E-01	UΤ	TF31.21			R0939	P	
BDS	115P262		FAC Program	R-A	R1.18	89E-01	UΤ	TF31.21			R0940	Р	
BDS	115P264 ;		FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0940	P	•
BDS	115P274		FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0941	P	
BDS	115P293	: F	FAC Program	R-A	R1.18	89E-01	UT	TI-31.21			R0942	P	

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Certificate of Authorization: National Board Number for Unit:

System	Component Number	;	ISO Drawing	Category	item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration	Exam Date	Exam Report	Exam Results	Comments
BDS	115P296 '		FAC Program	R-A	R1.18	89E-01	UT	TI-31.21			R0942	Р	
BDS	115P314	•	FAC Program	R-A	R1.18	89E-01	υτ	TF31.21			R0943	P	
BDS	115P342		FAC Program	R-A	R1.18	89E-01	υτ	TF31.21			R0946	P	
BDS	115T041		FAC Program	R-A	R1.18	89E-01	υτ	TF31.21			R0936	P	
BDS	115T111		FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0937	P	
BDS	115T204	•	FAC Program	R-A	R1.18	89E-01	υτ	TF31.21			R0939	P	
BDS	115T295	:	FAC Program	R-A	R1.18	89E-01	ŰΤ	TF31.21			R0942	P	
BDS	115X005		FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0932	P	
BDS	115X021		FAC Program	R-A	R1.18	89E-01	UΤ	TF31.21			R0936	P	
BDS	115X026		FAC Program	R-A	R1.18	89E-01	ŰΓ	TI-31.21			R0934	P	
BDS	115X040	:	FAC Program	R-A	R1.18	89E-01	ŰΤ	TF31.21			R0936	P	
BDS	115X091	:	FAC Program	R-A	R1.18	89E-01	ŰΤ	TF31.21			R0937	Р	
BDS	115X110		FAC Program	R-A	R1.18	89E-01	ŰΤ	TF31.21			R0937	P	
BDS	115X184	•	FAC Program	R-A	R1.18	89E-01	ŰΤ	TF31.21			R0939	P	
BDS	115X189	,	FAC Program	R-A	R1.18	89E-01	ŰΓ	TF31.21			R0938	P	
BDS	115X203	-	FAC Program	R-A	R1.18	89E-01	ŪΤ	TF31.21			R0939	P	
BDS	115X263		FAC Program	R-A	R1.18	89E-01	UT	TF31.21			R0940	P	
BDS	115X275		FAC Program	R-A	R1.18	89E-01	UΤ	TF31.21			R0942	P	
BDS	115X294	į	FAC Program	R-A	R1.18	89E-01	UΤ	TF31.21			R0942	Р	
RCP	1S-82P191-BOREKEY	;	ISI-0447-C-02	RG1.14	AUGM	AUG-01	UT	N-UT-21	SQ-68	2003092	R0901		RCP #1
RCP	2S-88P720-BOREKEY	i	ISI-0447-C-02	RG1,14	AUGM	AUG-01	UT	N-UT-21	SQ-68	2003091	R0883	P	RCP #4
RCP	3S-82P191•SUR	!	ISI-0447-C-02	RG1.14	AUGM	AUG-01	MT	N-MT-6		2003051	R0846	P	MOTOR SERIAL NUMBER 3S-82P191
RCP	3S-82P191-VOL		ISI-0447-C-02	RG1.14	AUGM	AUG-01	UΤ	N-UT-21	SQ-68	2003051	R0847	P	
RCP	3S-82P192-BOREKEY		ISI-0447-C-02	RG1.14	AUGM	AUG-01	UΤ	N-UT-21	SQ-68	2003092	R0905	P	RCP #3
RCP	4S-82P191-SUR		ISI-0447-C-02	RG1.14	AUGM	AUG-01	MT	N-MT-6		2002091	R0844	P	
RCP	4S-82P191-VOL	•	ISI-0447-C-02	RG1.14	AUGM	AUG-01	UT	N-UT-21	SQ-68	2002092	R0845	P	

Chattanooga Office Complex

1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization: N/A National Board Number for Unit: N/A

### **APPENDIX II**

# SUMMARY OF WATTS BAR UNIT 1 CYCLE 5 SG EDDY CURRENT INSPECTION/TUBE PLUGGING RESULTS

EDDY CURRENT EXAM TYPE	S/G 1	S/G 2	S/G 3	S/G 4	Totals
Cold Leg Bobbin Coil	4625	4617	4626	4576	18444
Hot Leg Bobbin Coil	903	896	905	896	3600
Hot Leg TTS +Point	4625	4617	4626	4576	18444
Cold Leg TTS +Point	935	935	935	935	3740
Hot Leg TSP & FS +Point	181	162	110	312	765
Cold Leg TSP & FS +Point	45	35	29	38	147
U-Bend Dent +Point	27	10	20	24	81
Low Row U-Bend +Point	456	450	455	452	1813
U-Bend Array Probe	818	821	827	820	3286
Total Exams Completed	12615	12543	12533	12629	50320
•					
INDICATIONS (Tubes)	S/G 1	S/G 2	S/G 3	.S/G 4	Totals
INDICATIONS (Tubes)  AVB Wear			<b>S/G 3</b>	. <b>S/G 4</b>	Totals
AVB Wear	S/G 1 12 3	S/G 2 14 2			
	12	14	6	13	45
AVB Wear Freespan ODSCC	12 3	14 2	6 1	13	45 6
AVB Wear Freespan ODSCC Loose Parts Damage	12 3 3	14 2 0	6 1 0	13 0 1	45 6 4
AVB Wear Freespan ODSCC Loose Parts Damage ODSCC HTS Circ	12 3 3 76	14 2 0 62	6 1 0 22	13 0 1 177	45 6 4 337
AVB Wear Freespan ODSCC Loose Parts Damage ODSCC HTS Circ ODSCC HTS Axial	12 3 3 76 1	14 2 0 62 0	6 1 0 22 1	13 0 1 177 2	45 6 4 337 4
AVB Wear Freespan ODSCC Loose Parts Damage ODSCC HTS Circ ODSCC HTS Axial ODSCC TSP Axial	12 3 3 76 1	14 2 0 62 0 101	6 1 0 22 1 96	13 0 1 177 2 112	45 6 4 337 4 510
AVB Wear Freespan ODSCC Loose Parts Damage ODSCC HTS Circ ODSCC HTS Axial ODSCC TSP Axial PWSCC HTS Circ	12 3 3 76 1 201	14 2 0 62 0 101 2	6 1 0 22 1 96 0	13 0 1 177 2 112 3	45 6 4 337 4 510 6

Chattanooga Office Complex

1101 Market Street Chattanooga, TN 37402

Unit: 1

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Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization: N/A
National Board Number for Unit: N/A

PLUGGING ST	UGGING STATUS		S/G 2	S/G 3	S/G 4	Totals
Previously Plug	gged Tubes	49	57	48	98	252
Plugged Cycle	5					
Dan	nage Mechanism					
PW:	SCC HTS Axial	2	3	11	1	17
PW	SCC HTS Circ	1	2	0	0	3
ODS	SCC HTS Axial	1	0	0	1	2
ODS	SCC HTS Circ	76	61	22	36	195
ODS	SCC TSP Axial	27	11	4	3	45
PW:	SCC U-Bend Axial	0	1	0	0	1
Prev	entive/	10	2	2	7	21
Volu	metric Indication	0	0	3	4	7
Loos	se Part Wear	2	0	0	1	3
ODS	SCC Freespan Axial	3	2	1	0	6
TOTAL TUBES	PLUGGED	171	139	91	151	552
TOTAL TUBES	SLEEVED (H/L TTS)	0	0	0	148	148
Classification	of Inspection Results	S/G 1	S/G 2	S/G 3	S/G 4	
	Length Bobbin Coil	C-2	C-2	C-2	C-2	
	end +Point/Array	C-1	C-2	C-1	C-1	
	of Tubesheet +Point	C-3	C-3	C-2	C-3	
	ted TSP +Point	C-1	C-1	C-1	C-1	
	espan/U-Bend Ding +Point	C-1	C-1	C-1	C-1	
Inspection Classification Category		Inspect	ion Results			
Category C-1	Less than 5% of the total tu		ed are degra	aded tubes	and none	of the
C-2	inspected tubes are defective. One or more tubes, but not		l% of the to	tal tubas in	enacted as	'Δ
0-2	defective, or between 5 and					
C-3	More than 10% of the total to of the inspected tubes are d	tubes inspec				

TENNESSEE VALLEY AUTHORITY Owner:

Chattanooga Office Complex

1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization: National Board Number for Unit: N/A

N/A

# APPENDIX III PRESSURE TEST SUMMARY

The following table summarizes the tests and results of the system pressure tests performed during the fifth cycle.

TENNESSEE VALLEY AUTHORITY

Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant:

WATTS BAR NUCLEAR PLANT

P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization: National Board Number for Unit:

N/A N/A

# WBN Unit 1 Cycle 5 RFO Pressure Test Report

System	Procedure No.	Test Type	Exam	Performance Date	Test Results
Safety Injection - Train A and Common Code Class 2 safety injection system piping and components located outside containment required for the Risk Informed Program.	1-TRI-63-901-A	System Functional	VT-2	10/19/2003	Satisfactory
Safety injection - Code Class 2 high head safety injection piping and components required for the Risk Informed ISI Program.	1-TRI-63-903	System Functional	VT-2	10/07/2003	Satisfactory
Safety Injection Train A cold leg injection, Safety Injection common hot leg recirculation and RHR common cold leg injection piping and components required for the Risk Informed ISI Program.	1-TRI-63-905-A	System Functional	VT-2	10/19/2003	Satisfactory
Safety injection Train B cold leg injection piping and components required for the Risk Informed ISI Program.	1-TRI-63-905-B	System Functional	VT-2	10/02/2003	Satisfactory
Safety Injection RHR hot leg recirculation piping and components required for the Risk informed ISI Program.	1-TRI-63-906	System Functional	VT-2	10/19/2003	Satisfactory
Essential Raw Cooling Water - Train B Code Class 3 buried supply piping	0-TRI-67-902-B	Delta Flow	VT-2	10/23/2003	Satisfactory
Essential Raw Cooling Water - Train B Code Class 3 buried discharge piping	0-TRI-67-902-B	Adequate Flow	VT-2	10/23/2003	Satisfactory
Reactor Coolant System - Code Class 1 Reactor Coolant and interfacing system piping and components	1-TRI-68-6	System Leakage	VT-2	10/18/2003	Satisfactory
Reactor Coolant System - Code Class 1 bolted joints	1-TRI-68-7	N-533 Alt. for Bolted Joints	VT-2	10/11/2003	Satisfactory
Residual Heat Removal - Train 1A Code Class 2 Residual Heat Removal System piping and components located outside containment required for the Risk Informed Program.	1-TRI-74-901-A	System Functional	VT-2	09/12/2003	Satisfactory
Residual Heat Removal - Train 1B Code Class 2 Residual Heat Removal System piping and components located outside containment required for the Risk Informed Program.	1-TRI-74-901-B	System Functional	VT-2	09/11/2003	Satisfactory

Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization: National Board Number for Unit: N/A

N/A

# **APPENDIX IV** REPORT FOR REPAIRS AND REPLACEMENTS **ASME FORM NIS-2**

Attached are the ASME Form NIS-2s, Report for Repairs and Replacements, for the period from March 22, 2002 to completion of the fifth cycle refueling outage, October 20, 2003.

The following table lists by tracking number the NIS-2s included in this report. Tracking numbers not listed are either for Code Class 3 components or have been deleted.

	TRACKING	CODE	WORK ORDER	BRIEF
_	NUMBER	CLASS	NUMBER	DESCRIPTION
	RR-05-002	2	01-012544-001	Replace stem/plug assembly
	RR-05-007	2	02-001685-000	Seal weld repaired
	RR-05-011	2	02-004561-000	Replaced globe valve and associated valves
	RR-05-020	1	02-014908-000	Seal weld bonnet to body
	RR-05-021	1	02-012528-000	Replace RCP #4 cartridge seal assembly
	RR-05-022	1	02-012527-000	Replace RCP #1 cartridge seal assembly
	RR-05-030	2	02-013265-000	Replaced valve
	RR-05-031	2	02-013267-000	Replaced valve
	RR-05-032	2	02-013268-000	Replaced valve
	RR-05-033	2	02-013270-000	Replaced valve
	RR-05-034	2	02-013271-000	Replaced valve
	RR-05-035	2	02-013272-000	Replaced valve
	RR-05-036	2	02-013273-000	Replaced valve
	RR-05-037	2	02-013274-000	Replaced valve
	RR-05-045	2	01-013232-000	Replace outboard mechanical seal
	RR-05-047	2	02-012478-001	Replace carbon steel fittings with chrome-moly fittings - Lp2
	RR-05-048	2	02-012478-002	Replace carbon steel fittings with chrome-moly fittings - Lp3
	RR-05-049	2	02-012478-003	Replace carbon steel fittings with chrome-moly fittings - Lp4
	RR-05-052	1	02-003680-000	Remove and reinstall valve 1-ISV-0564-S, - 0565-S & -0567-S
	RR-05-055	2	02-016870-000	Replace valve
	RR-05-057	' 1	03-004777-000	Installed cap over valve bonnet and seal welded to valve body
	RR-05-061	1	02-016877-000	Replace valve
•	RR-05-067	2	02-012479-000	Replaced 2" check valve 1-CKV-063-0725.
	RR-05-078	2	03-003743-001	Replaced main steam safety valve

TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT

P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization: N/A National Board Number for Unit: N/A

TRACKING	CODE	WORK ORDER	BRIEF
NUMBER	CLASS	NUMBER	DESCRIPTION
RR-05-079	2	03-003743-000	Replaced main steam safety valve
RR-05-082	2	02-015425-001	Base metal repair
RR-05-089	1	03-014058-000	Replaced RCP #2 cartridge seal assembly
RR-05-090	2	02-014450-000	Replaced cover and pilot poppet
RR-05-091	2	02-014449-000	Replaced cover and pilot poppet
RR-05-093	2	02-014450-001	Remove and reinstall piping to support inspection of 1-FCV-001-0029.
RR-05-097	2	03-015889-002	Added new ECCS vent in the Hot Leg 4 SI
RR-05-099	2	02-015056-001	Replaced disc
RR-05-102	2	02-009676-002	Replaced valve
RR-05-103	2	03-015889-003	Repair indication in 1/2" pipe in the weld area of weld 1-063B-T130-4B
RR-05-105	2	03-012457-000	Repair indications identified during PT of weld 1-063A-D077-19
RR-05-107	2	02-015175-007	Replace snubber
RR-05-108	2	03-016364-000	Replaced valve trim assembly
RR-05-109	1	03-016825-000	Replaced valve
RR-05-110	1	02-012607-003	Install sleeves in SG4
RR-05-111	1	02-012607-001	Remove 4 tubes and install welded plugs
RR-05-113	2	02-015167-005	Replaced snubber
RR-05-114	2	03-001374-000	Repair indications in 3/8" tubing coupling welds 1-043A-T013-65A & -73 which were identified during PT of welds
RR-05-115	2	03-016942-000	Removal of indication in 1" diameter piping
RR-05-119	2	03-015889-007	Add system 063 support to existing safety injection support
RR-05-120	2	03-015889-009	Add system 063 supports to existing ERCW support 47A450-21-081 and SGBD support 47A400-06-118
RR-05-121	2	03-016867-000	Fabricate and install new name plate for 3" pipe per TACF # 1-03-019-081
RR-05-123	2	03-015889-001	Repair of 1" indication in the toe of weld
RR-05-124	2	03-017997-000	Replaced valve bonnet and cage
RR-05-125	1	03-018085-000	Replaced snubber

	FORM NIS-2 OWI AS Required	VER'S REPORT/FOR	REPAIRS The ASME	OR REPLACEN Code Section X	/ENT	S A	
1. Owner TENN	ESSEE VALLEY A	UTHORITY	Date	03/62/02			
1101 Ma	Name rket St., Chattanoog	ga, TN 37402		/_of_2		· <u></u>	
2. Plant Watts	Address Bar Nuclear Plant			nit 1			
P. O. Bo	Name x 2000, Spring City,	TN 37381	พอรั	<i>∆1−0/2544</i> Repair Organization P	-00.	<u> </u>	•
3. Work Performed	Address d by WATTS BAR N	UCLEAR PLANT	Type Cod	Repair Organization P e Symbol Stamp	.O. No. N/A	, Job No., etc.	
Í		Name	Authoriza	tion No N/A			
	Address		Expiration	Date N/A			
4. Identification of	system <u>CVCS</u>	System 00	-				
	construction Code Edition of Section XI	על אינעם 19 אנעם 19 אנעם 19 על על על 19 על על 19 על 1	ون Edition or Replace		a,	N/A Coo	ie Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Globa VAINE	Fisher	5909861	2542	1-1-64-062-0089	1977	Replaced	yes
		•	-				
	•						
						[	
							<del></del>
				<u> </u>		Ĺf	
7. Description of W	Jork Replace 51	Kern/Plug Assem	ЫУ	VALVE 5/W.			
8. Tests Conducted	i: Hydrostatic 🛭 P Other 🖺 Press	neumatic   Nomina	al Operatin i Test Te	g Pressure 💢 emp	F W	FAROXMEO O 3-616/66	مده 000-
11 in., (2)	information in item	of lists, sketches, or s 1 through 6 on this of sheets is recorded	report is in	cluded on each s			

CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this <u>Reflacement</u> conforms to the repair or replacement rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A signed/MaintenanceSpecialist/, V Calle **CERTIFICATE OF INSERVICE INSPECTION** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texuessee and employed by HSB-CT of MarTFord cT. have inspected the components described in this Owner's Report during the period 1/9/03 to 9/30/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described In this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Inspector's Signature Commissions TN 2534

National Board, State, Province, and Endorsements Date \_\_\_\_

Owner TENN	NESSEE VALLEY A	UTHORITY	Date	05/03/2000	۲,		
1101 Ma	Name arket St., Chattanoo	ga, TN 37402	Sheet	/ of 2			
. Plant Watts	Address Bar Nuclear Plant		Unit <u>Ur</u>	nit 1			
P. O. Bo	Name 0x 2000, Spring City	.TN 37381		ORDER 02-			
. Work Performe	ed by WATTS BAR N	UCLEAR PLANT	Type Code	Repair Organization Symbol Stam	P.O. No. P N/A	Job No., etc.	•
P.O. BOX 2000, S	SPRING CITY, TEN	Name N. 37381	Authorizat	ion No N/A			
_,,	Address		Expiration	Date N/A		_	
I. Identification of	f system 068	RCS		•			•
. Identification o	f Components Repa	ired or Replaced and	Replaceme	ent Components	; 		ASME Code
			National		,	Repaired,	Code Stamped
N		l	reaccial		Year	Replaced, or	(Yes or
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	1 Built	Replacement	No)
1-FSV-068-039.	5 TARGET ROCK	Manufacturer Serial No.	Board No.	Other Identification	Built	Replacement	
1-FSV-068-039. VELO #	5 TARGET ROCK		./9			166	<del></del>
1-FSV-068-039. WELD #	5 TARGET ROCK	14	./9			Replace.	
1-FSV-068-039. WELD #	5 TARGET ROCK	14	./9			Replace.	
1-FSV-068-039. WELD #	5 TARGET ROCK	14	./9			Replace.	
1-FSV-068-039. WELD #	5 TARGET ROCK	14	./9			Replace.	
1-F5V-068-039. WELD #	5 TARGET ROCK	14	./9			Replace.	
1-FSV-068-039. WELD #	5 TARGET ROCK	14	./9			Replace.	<del></del>
1-F5V-068-039. WELD #	5 TARGET ROCK	14	./9			Replace.	<del></del>
1-F5V-068-039. WELD # I-0681-7113-64	S TARGET ROCK  SEAL WELD F	14 A RESEXENCES	./9			Replace.	
1-F5V-068-039. WELA # 1-0681-7113-69	STARGET ROCK  SEAL WELD F	14 A RESERVAÇÃO eld REPAIRED	.19 v.e.v.z	*/A	/990	Replace AEINIES	y'or y
1- FSV-068 -039. WELD # J-068 1-7113-6 9	Work Seal W.	14 A RESEXENCES	·/ 9	g Pressure #	/990	Replace.	y/o²y

		// FORMINIS-2	(Back)	Crist.
9. Remarks	TRACKING	NUMBER DIED. Applicable Manufacturers Data H	Cepons to be Attached	RR-05-007
	•	CERTIFICATE OF C	OMPLIANCE	
-	e statements made	in the report are corre		conforms to the
Type Code Symb	ool Stamp N/A		<del></del>	
Certificate of Aut	horization No. N	Ά		
Signed Jun	Owner or Ow	ZSZ SIECIALIST ners Designee, Title	Date .	<u>5/3</u> 20 <u>02</u>
	CER	TIFICATE OF INSER	VICE INSPECTION	I
of Har Owner's Report of my knowledge in this Owner's R By signing this concerning the exthe inspector nor	te State or Province  Trand cr.  Ituring the period  and belief, the Own eport in accordance ertificate neither the examinations and con his employer shall	have in have i	nd employed by <u>#3</u> respected the compositions and takes of the ASME Code loyer makes any was cribed in this Owner for any personal in	nents described in this and state that to the best n corrective measures described
Bruce 7 Inspecto	N. Earnigh r's Signature	Commissions <u>7</u> Na	ルユ534 ational Board, State	, Province, and Endorsements
<u> </u>	or the last decision with many		, <b>40 p.</b>	ومي د هم د مواد په ده

7 3 7 3 1		NER'S REPORT FOR 1 by the Provisions of				S*:/// *****		
1. Owner TENN	ESSEE VALLEY A	UTHORITY	Date 0	4-30-2002				
1101 Ma	rket St., Chattano	oga, TN 37402	Sheet	1 of 2				
2. Plant Watts	Address Bar Nuclear Plant	;	Unit U	 Init 1				
P. O. Bo	Name x 2000, Spring Cit	v. TN 37381	W/O 02-004561-000					
	Address d by MECHANICAL		Repair Organization P.O. No., Job No., etc. Type Code Symbol Stamp N/A					
			19/74	·	<del></del>			
P.O. BOX 2000 S	Authoriza	tion No N/A						
	Address		Expiration	Date N/A		···		
4. Identification of	system 062 - C.\	/.C.S. 		· · · · · · · · · · · · · · · · · · ·				
(b) Applicable E	5. (a) Applicable Construction Code Sect.III 19 74 Edition, W74 Addenda, n/a Code Case  (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989  6. Identification of Components Repaired or Replaced and Replacement Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacemen		
1-ISV-062-0549-S	KEROTEST	KP23-16	N/A	GLOBE VLV		REPLAC ED	YES	
1-ISV-062-0549-S	KEROTEST	H×4-4	N/A	GLOBE VLV	75	REPLAC EMENT	YES	
NELD NO. 1-062A-T107-6	N/A	N/A	NIA	I-PIPE-062-B	1/1	REPLACED	No	
WGLD NO. 1-062A-T107-7	NA	~/A	MA	1-PIPG-062-B	7/1	REMAGED	No	
WELD NO. 1-062A. T107-8	N/A	NA	N/A	I-PIPE-062-B	7/1	REPLACED	No	
WELD NO. 1-062A- TIO7-9	NA	N/A	N/A	1-PIPG- 062-B	1/1	REPLACED	No	
WELD NO. 1-062A- T(07-5	N/A	NA	MA	1-PIPE-062-B	-/A	Replaces	No	
KLBOW	A10-304 74	N-A JW	NA	-/1	4/4	RED. SCENE		
PIPE	POSER SUPER	H1 × 492617	.o/A	w/st		P.F. A.C.		
	/ork REPLACED (	BLOBE VALVE AND	Operating	Pressure 🕱		ve of the	9045	
11 in., (2)	ental sheets in form Information in item	of lists, sketches, or d s 1 through 6 on this r	Irawings m eport is inc	ay be used, prov cluded on each s	ided.			

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9. Remarks TRACI	KING NO. RR-05-0	CODE CASE N-416-2	2 wo = 32-004561-00
<del></del>			
	CEDTIE	ICATE OF COMPLIANCE	
We certify that the state	ements made in the rep		or replacement
Type Code Symbol Sta	mp <u>N/A</u>		
Certificate of Authorizat	lion No. N/A		
Signed Holli.	Alcint. Special	Date Pee, Title	: <u>12/17</u> . 20 <u>03</u>
•	CERTIFICATE	OF INSERVICE INSPECTIO	DN .
			of Boiler and Pressure Vessel
		<u>ಟ್ಯಾಕರ</u> and employed by	
of		have inspected the comp	oonents described in this
			and state that to the best
-	•		en corrective measures described
		equirements of the ASME Coo	varranty, expressed or implied,
			er's Report. Furthermore, neither
-			injury or property damage or a
loss of any kind arising t	• •	•	many or proporty definego or a
0 6			
Inspector's Sign	commissible Commis	issions 7N2534 National Board, Stat	e, Province, and Endorsements
Date 12/30	20 <i>_0</i> -}	manufal Dould, Old	o, . Totalog and andersonions
		manama sasaga assinta da	ns ann gegane son lan e la la la la company de la casa e la casa de la casa e la casa e la casa e la casa e la
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	As Required	NER'S REPORT FOR I by the Provisions of I	he ASME	Code Section XI	ENIC		(10.5°)
1. Owner TENN	IESSEE VALLEY A	UTHORITY	Date _	01-09-03			
1101 Ma	rket St., Chattanoo	oga, TN 37402	Sheet	/ of 2			
2. Plant Watts	Address Bar Nuclear Plant		Unit	Unit 1			
P. O. Bo	Name x 2000, Spring City	y, TN 37381	W/O 02	-014908-000	-		
3. Work Performe	Address d by MECHANICAL	MAINTENANCE	Repair Organization P.O. No., Job No., etc. Type Code Symbol Stamp N/A				
P.O. BOX 2000 S	PRING CITY,TN 37	lame 381	Authoriz	ation No N/A	•		
	Expiration	on Date · N/A	-				
4. Identification of	system 063 -SAF	ETY INJECTION					
5. (a) Applicable Construction Code Sect.III 19 74 Edition, W74 Addenda, n/a Code Case  (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989  5. Identification of Components Repaired or Replaced and Replacement Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No	4	Year Built	Repaired, Replaced, or Replacemen	
WELD NO. 1-063B-T108-10	N/A	N/A	N/A	SEAL WELD	N/A	REPAIR	ИО
WUA NO 1-063B-7108-6	VRI NIA	NA.	NA	Sealwald	N/4	Repair	NO
7. Description of V	Vork SEAL WELD	BONNET TO BODY					
8. Tests Conducte	d; Hydrostatic 🛭 P Other 🗖 Press	neumatic D Nominal	Operation Test T		F		
11 in., (2	) information in Item	of lists, sketches, or d s 1 through 6 on this r of sheets is recorded	eport is ir	rcluded on each s	rided ( heet, a	(1) size is 8 and (3) eac	北in. x th sheet

02-14908-00 CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this Marie \_ conforms to the repair or replacement rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. Signed CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of 16NNESSEE and employed by 145B-CT have inspected the components described in this to 10/7/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions TN 2534
National Board, State, Province, and Endorsements Date

	FORM NIS-2 OWI VAS Required	NER'S REPORT, FOR	REPAIRS the ASME	OR REPLACEM Code Section X	/ENT	S	
1. Owner TENN	IESSEE VALLEY A	UTHORITY	Date	/0-:	4-0	3	
1101 Ma	Name arket St., Chattanoog	ga, TN 37402	Sheet	'/ of 2			
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1			
	Name x 2000, Spring City,			INT. W.O. 02-01			•
3. Work Performe	d by WATTS BAR N	UCLEAR PLANT	Type Cod	Repair Organization P e Symbol Stamp	.0. No. N/A	, Job No., etc.	
P.O. BOX 2000, S	PRING CITY, TENI	Name N. 37381	Authoriza	tion No N/A			
	Address		Expiration				
4. Identification of	system REACTO	R COOLANT SYSTE					
(b) Applicable E	Edition of Section XI	ASME SECT. III 19 71 Utilized for Repairs or Replaced and	Edition, 1 or Replace	ments 1989	, <u>N/A</u> —	Cod	de Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCP 4 CARTRIDGE	WESTINGHOUSE	2183	N/A	1-PMP-068-0073 PART NO	1974	REPLACE	NO
SEAL WITH NO. 2 SEAL HOUSING AND BOLTS	Als/17/02			5055D24-G01 4036A90H20-			
				205 10(23(03			
Cartridge Seal	Westinghouse	. S78T	A/N	Some		Replaced	No_
	,						
				•			
	<u> </u>						
7. Description of V	Vork REPLACE RO	P NO. 4 (1-PMP-068	-0073) CA	RTRIDGE SEAL	ASSE	EMBLY	
8. Tests Conducte		neumatic D Nomina sure <u>NOP</u> p			ر- <u>بار</u> ۴-	1-2FP+	000
11 in., (2)	Information in item	or usts, sketches, or s 1 through 6 on this of sheets is recorded	report is in	cluded on each s	heet,	and (3) eac	h sheet

Securify that the statements made in the report are correct and this Yenlacement conforms to the repair or replacement  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Signed Report of Owner's Designee, Title  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission Issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of Temposts:  and employed by MSB-CT  of NarTosid CT-  have Inspected the components described in this  Owner's Report during the period 1/9/63 to 1/6/24/63 and state that to the best of my knowledge and bellef, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this Yeplocement conforms to the repair or replacement  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Signed R. Jepongella, Marit Specialist Date 10/24. 20 0/3  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the State or Province of Tennessee and employed by NSB-CT of Mariford CT. have inspected the components described in this  Owner's Report during the period 1/1/03 to 10/24/03 and state that to the best of my knowledge and bellef, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Signed R. John Garage Marit Special Date 10/24 20 03  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texassee and employed by MSB-CT of Martford CT- have inspected the components described in this Owner's Report during the period 1/9/03 to 10/24/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
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Certificate of Authorization No. N/A  Signed R. John Ugain Maint Sparial Date 10/24 20 03  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of Temessee and employed by MSB-ET  of Martford CT- have inspected the components described in this  Owner's Report during the period 1/9/03 to 10/24/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
Signed R. Lobouques Maint Special Date 10/24 20 03  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of Texassee and employed by HSB-cT  of Hartford CT- have inspected the components described in this  Owner's Report during the period 1/9/03 to 10/24/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
Signed R. John Ugain, Maint Spacial Date 10/24. 20 03  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB-ET  of Hartford CT- have inspected the components described in this  Owner's Report during the period 1/9/03 to 10/24/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
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of
Owner's Report during the period
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied
by assume the commons homes his moreout hat the employer makes any waitanty, expressed of implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
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Brue M. Eamings Commissions TN 2534
Inspector's Signature 0 National Board, State, Province, and Endorsements
Date 10/24 20 <u>03</u>
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		NER'S REPORT FOR						
1. Owner TENN	ESSEE VALLEY A	JTHORITY	Date	10-24-03				
1101 Mai	Name rket St., Chattanoog	ja, TN 37402	Sheet	/ of 2				
2. Plant Watts	Address Bar Nuclear Plant		Unit Unit 1					
P. O. Box	TN 37381	WBN MAINT. W.O. 02-012527-000 ·.						
3. Work Performed by WATTS BAR NUCLEAR PLANT			Repair Organization P.O. No., Job No., etc.  Type Code Symbol Stamp N/A					
P.O. BOX 2000, S	lame N. 37381	Authorizat	ion No N/A	-				
Address Expiration Date -N/A								
4. Identification of system REACTOR COOLANT SYSTEM SYSTEM 068								
1 '' ''	_	ASME SECT. III 19 71 Utilized for Repairs of	Edition, 1		. N/A	Cod	ie Case	
6. Identification of	Components Repai	red or Replaced and	Replaceme	ent Components		,		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
RCP 4 CARTRIDGE SEAL WITH NO. 2	WESTINGHOUSE	2296	N/A	1-PMP-068-0008 PART NO	1974	REPLACE	NO	
SEAL HOUSING				5055D24-G01	182.	REPLACEMEN	,	
# 2 SEAL HOUSING BOLTS		70645' 70847 70840' 70847	7/1	PIN:  4936890H26	De de	ENTIRE	20	
<b>13</b>	•	TOPAS' TOPAS TOPAH' TOPAS				B BOLTS		
Cartridge Seal		2289	ALK			Replaced	7	
	,							
7. Description of W		P NO. 1 (1-PMP-068	3-0008) CA	RTRIDGE SEAL	ASS	EMBLY &		
8. Tests Conducted	d: Hydrostatic 🛭 F	octs. 11163 Pac 11163 Ineumatic □ Nomina sure <u>NOP</u> p	al Operatin	P⊶⊷ WO 02 g Pressure ■ remp <u>NOT</u>	_•F	4078-	000	
11 in., (2)	information in item	of lists, skatches, as as 1 through 6 on this r of sheets is recorder	report is in	cluded on each				

Appendix IV Page /3 of 100

CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this **SEMENT*** conforms to the repair or replacement  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Signed **Session*** Maint Specialist** Date 10 24 03 20 00 00 00 00 00 00 00 00 00 00 00 00	FORMNIS 2 (Back)
CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this **REMACHAT** conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Signed **Report Company Month Special Date 102403 20  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of **Templess** and employed by **ISB-CT** of **Hartford T** have inspected the components described in this Owner's Report during the period **1/3/0.3** to **1/0.24/0.3** and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report In accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  **Bull M. Earnsch** Commissions **Ty2534**	9. Remarks TRACKING NO.: RR. 05-022
We certify that the statements made in the report are correct and this	Adhirong against a para (Charle to pa Machied
We certify that the statements made in the report are correct and this	
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Certificate of Authorization No. N/A  Signed R. Concusains Maint Specialist Date 10/24/03 20  Owner's Designee, Title  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by //SS-c/  of //ATTord T. have inspected the components described in this  Owner's Report during the period //1/3/03 to //0/24/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Brue M. Earney Commissions Tu 2534	
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Inspectors and the State or Province of <u>Tennessec</u> and employed by <u>MSR-cI</u> of <u>MarTFord GT-</u> have inspected the components described in this  Owner's Report during the period <u>1//3/o3</u> to <u>10/24/o3</u> and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section Xi.  By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Bruce M. Earny h. Commissions Tw2534	CERTIFICATE OF INSERVICE INSPECTION
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Owner's Report during the period	
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Bruce M. Earnigh Commissions TN 2534	
	1055 of any kind ansing from of connected with this inspection.
Inconstants Cinnelius V	Bruce W. Earryh   Commissions   TN 2534   Inspector's Signature   National Board, State, Province, and Endorsements
Date <u>10/24</u> 20 <u>レニ</u>	Date <u>10j2Y</u> 20 <u></u> 20
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		NER'S REPORT FOR d by the Provisions of				Lý		
1. Owner TENN	ESSEE VALLEY A	UTHORITY	Date 01	-22-2003			÷.·	
1101 Ma	Name rket St., Chattanoo	oga, TN 37402	Sheet _ / of ', 2					
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1				
P. O. Bo	x 2000, Spring City	y, TN 37381		13265-000				
3. Work Performed	d by MECHANICAL		Type Cod	tepair Organization P e Symbol Stamp	.0. No., N/A	Job No., etc.		
P.O. BOX 2000 SI	PRING CITY,TN 37	Name 381	Authorizat	ion No N/A				
	Address		Expiration	Date N/A				
4. Identification of	system 067 - E.F	R.C.W.						
• • • •	construction Code		Edition, r		a, <u>n/a</u>	Cod	de Case	
(b) Applicable E	dition of Section XI	Utilized for Repairs or	Replacem	ents 1989	_			
6. Identification of	Components Repai	red or Replaced and R	eplacemer	t Components				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)	
VALVE 1-FCV-067-0112-A	HENRY PRATT		N/A	BUTTERFLY VALVE	1976	REPLAC ED	YES	
		•						
VALVE 1-FCV-067-0112-A	HENRY PRATT .	465284DD-1-3	N/A	BUTTERFLY VALVE	2003	REPLAC EMENT	YES	
BOLTING MATIL 3/4" ALL THD	NOVA	HTENIA	NA	107 # 3599 5051	1998	RERALGO	NA	
NUTS -3/4"	NOVA	B87035	NA	NIA		RENACEO	NA	
7. Description of W	Vork REPLACED C	COMPLETE VALVE	ទុំ ৪০८७	ING MATIL				
8. Tests Conducted		neumatic u Nominai :urepsi						
in., (2) int	formation in Items 1	of lists, sketches, or d through 6 on this repo sheets is recorded at	rt is include	ed on each shee	ided (' l, and	(3) each sh	4 in. x 11 eet is	

FORM NIS-2 (Back)
9. Remarks TRACKING NO. PR-05-030 Applicable Manufacturers Data Reports to be Attached
•
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Contigueto of Authorization No. 1814
Signed Authorization No. N/A  Signed Authorization No. N/A  Signed Authorization No. N/A  Date 10/14 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texassee and employed by HSB-CT
of Hart Ford C7. have inspected the components described in this
Owner's Report during the period 10/3/53 to 10/15/03 and state that to the best of
my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss
of any kind arising from or connected with this inspection.
Brue M. Earnigh Commissions TN 2534 Inspector's Signature National Board, State, Province, and Endorsements
Date 10/15 2003

		NERS REPORT FO				S <sup>M</sup> N,		
		d by the Provisions o	the ASME	Code Section X				
1. Owner TENN	IESSEE VALLEY A	UTHORITY	Date 0	1-22-2003				
1101 Ma	rket St., Chattano	oga, TN 37402	Sheet _	/ of 2				
2. Plant Watts	Address Bar Nuclear Plant	<u> </u>	Unit Unit 1					
P. O. Bo	Name ox 2000, Spring Cit	y, TN 37381	W/O 02-013267-000					
3. Work Performe	Address d by MECHANICAL	MAINTENANCE	Type Cod	Repair Organization F e Symbol Stamp	0.0. No. N/A	, Job No., etc.		
P.O. BOX 2000 S	PRING CITY,TN 37	Name 381	Authoriza	tion No N/A				
Address			Expiration	Date N/A				
4. Identification of	system 067 - E.F	R.C.W.	<u> </u>					
5. (a) Applicable C	Construction Code	Sect.III 19 74	Edition, r	n/a Addend	a, n/a	Co	de Case	
(b) Applicable E	dition of Section XI	Utilized for Repairs or	Replacem	ents 1989		<del></del>		
6. Identification of	Components Repai	red or Replaced and F	Replacemer	nt Components				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Bullt	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)	
VALVE 1-FCV-067-0091-B	HENRY PRATT	D-0045-6-5	N/A	BUTTERFLY VALVE	1976	REPLAC ED	YES	
			•					
VALVE 1-FCV-087-0091-B	HENRY PRATT	46328400-14	N/A	BUTTERFLY VALVE	2003	REPLAC EMENT	YES	
			•					
						-		
7. Description of W	/ork REPLACED C	COMPLETE VALVE						
ū. Tesis Contucicu	i. Hydrostatic & 7. Other 🗈 Press	neumatic o ivominai urepsi	Operating Test Temp	71033416 2 <b>7</b> 0 <u><b>/</b>07</u> •F			<u> </u>	
in., (2) inf	ormation in items 1	of lists, sketches, or d through 6 on this repo	rt is include	ed on each sheet				

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9. Remarks TRACKING NO. RR-05-031
Applicable Manufacturer's Data Reports to be Attached
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A N/A
Signed Ochlie Masintenance Specialist Date 10/12: 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Temesice and employed by HSB-CT
of HarTford CT. have inspected the components described in this .
Owner's Report during the period 10/3/3 to 10/3/03 and state that to the best of
my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a los
of any kind arising from or connected with this inspection.
B mc.
Inspector's Signature Commissions TN2534  National Board, State, Province, and Endorsements
Date 10/12 20 0 3

	FORM NIS-2 OV As Require	WER'S REPORT FOI ed by the Provisions o	RREPAIRS I the ASME	OR REPLACE Code Section X	MENT	S i		
1. Owner TENN	VESSEE VALLEY A	UTHORITY	Date 0	1-22-2003			<u> </u>	
1101 Ma	Name Arket St., Chattano	oga, TN 37402	Sheet / of 2					
2. Plant Watts	Address Bar Nuclear Plant	<u> </u>		nit 1				
P. O. Bo	Name ox 2000, Spring Cit	y, TN 37381	W/O 02-013268-000					
3. Work Performe	Address d by MECHANICAI	MAINTENANCE	Type Cod	Repair Organization F e Symbol Stamp	.O. No.	, Job No., etc.		
		Name		tion No N/A		•		
· · · · · · · · · · · · · · · · · · ·	Address			Date : N/A	<del>-,</del>			
4. Identification of	system 067 - E.F	R.C.W.					·	
5. (a) Applicable (	Construction Code	Sect.III 19 74	Edition, i	n/a Addend	a, n/a	Co	de Case	
(b) Applicable E	Edition of Section XI	Utilized for Repairs or	Replacem	ents 1989				
6. Identification of	Components Repai	red or Replaced and F	Replacemei	nt Components				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacemen		
VALVE 1-FCV-067-0096-B	HENRY PRATT	D-0045-6-2	N/A	BUTTERFLY VALVE	1976	REPLAC ED	YES	
VALVE 1-FCV-067-0096-B	HENRY PRATT	4632840D-1-8	N/A	BUTTERFLY VALVE	2003	REPLAC EMENT	YES	
7. Description of W	Vork REPLACED C	OMPLETE VALVE						
	Other   Press	ure psi of lists, sketches, or d	Test Temp	<u> №T</u> •F	ded (	I) size le 91	4 in ∨ 1°	
in., (2) int	formation in items 1	through 6 on this repo	rt is include	ed on each sheet				

A FORMINIS-2 (Back)。 ローニー (A TAREST A
9. Remarks TRACKING NO. 18 - 05 - 032. Applicable Manufacturers Units reports to be Atlached
· · · · · · · · · · · · · · · · · · ·
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Ochlin Maintenance Specialist Date 10/12 20 03 Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Texassez and employed by HSB-CT
of HarT Ford CT. have inspected the components described in this
Owner's Report during the period 10/3/03 to 13/12/03 and state that to the best of
my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss
of any kind arising from or connected with this inspection.
the state of the s
Bruce M. Earnigh Commissions TN2534
Inspector's Signature National Board, State, Province, and Endorsements
Date 10/12 20 03
the control of the co

1. Owner TEI	NESSEE VALLEY A	d by the Provisions of	\$200.00 Madeena x	0-10-03 1-22-2003 500	3.4400	***********	**********
<del></del>	Name		Date 10	1-22-2003 500	10-12	-,3	
1101 /	Market St., Chattano	oga, TN 37402	Sheet _	/_ of _2_			
2. Plant Wat	ts Bar Nuclear Plant	<u> </u>	Unit <u>U</u>	nit 1			
P. O. I	Name Box 2000, Spring Cit	y, TN 37381		13270-000			<u></u>
3. Work Perform	ned by MECHANICAL	MAINTENANCE	Type Cod	Repair Organization F e Symbol Stamp	N/A	, Job No., etc.	
P.O. BOX 2000	SPRING CITY, TN 37	Name 381	Authoriza	tion No N/A			
Address				Date ·N/A			
4. Identification of system 067 - E.R.C.W.							
5. (a) Applicable	Construction Code	Sect.III 19 74	Edition, r	n/a Addend	a, n/a	Co	de Case
(b) Applicable	Edition of Section XI	Utilized for Repairs or	Replacem	ents 1989	•		
6. Identification	of Components Repai	red or Replaced and F	Replacemer	nt Components			
Name of Componer	nt Name of Manufacturer	Manufacturer Scrial No.	National Board No.	Other Identification	Year Bullt	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)
VALVE 1-FCV-067-0088-	HENRY PRATT	D-0045-6-10	N/A	BUTTERFLY VALVE	1976	REPLAC ED	YES
VALVE 1-FCV-067-0088-	HENRY PRATT	46328400-1-9	N/A	BUTTERFLY VALVE	2003	REPLAC EMENT	YES
		•					
			]				
<del></del>							
7. Description of	Work REPLACED	COMPLETE VALVE	L				
8. Tests Conduc	ted: Hydrostatic ப P Other D Press	neumano u ivominal surepsi	Operating Test Tem	F. Not °F			
in., (2)	information in items 1	of lists, sketches, or of through 6 on this repo	ort is includ	ed on each shee	ided ( t, and	1) size is 81 (3) each sh	4 in. x 11 eet is

FORM N/S-2 (Back)
9. Remarks TRACKING NO. RR-05-033 Applicable Manufacturer's Data Reports to be Attached
CERTIFICATE OF COMPLIANCE ·
We certify that the statements made in the report are correct and this <u>REPLACEMENT</u> conforms to the repair or replacement rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Of Culle Maintenance Specialist Date 10/13 20 03  Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Texmessee and employed by HSB-CT
of HArTFord CT. have inspected the components described in this  Owner's Report during the period 10/3/03 to 10/13/03 and state that to the best of
my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss
of any kind arising from or connected with this inspection.
Inspector's Signature Commissions TN 2534  National Board, State, Province, and Endorsements
Date 10/13 20 03

	FORM NIS-2 ON As Require	NER'S REPORT FOR d by the Provisions of	REPAIRS the ASME	OR REPLACEN Code Section X	AENT	sy (s	0.48	
1. Owner TENN	ESSEE VALLEY A	UTHORITY	Date 01	1-22-2003				
1101 Ma	rket St., Chattanoo	oga, TN 37402	Sheet / of 2					
2. Plant Watts	Address Bar Nuclear Plant	<u> </u>	Unit Unit 1					
P. O. Bo	x 2000, Spring Cit	y, TN 37381	W/O 02-0	13271-000				
3. Work Performe	Address d by MECHANICAL	MAINTENANCE	Type Cod	Repair Organization P e Symbol Stamp	.O. No. N/A	Job No., etc.		
P.O. BOX 2000 SPRING CITY,TN 37381			Authorizat	tion No N/A				
		Expiration	Date · N/A					
4. Identification of system 067 - E.R.C.W.								
1 ''''	construction Code dition of Section Xi	Sect.III 19 74 Utilized for Repairs or			a, <u>n/a</u>	Cod	de Case	
6. Identification of	Components Repai	red or Replaced and R	teplacemer	nt Components				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)	
VALVE 1-FCV-067-0083-B	HENRY PRATT	D-0045-6-11	N/A	BUTTERFLY VALVE	1976	REPLAC ED	YES	
·		•	]					
VALVE 1-FCV-067-0083-B	HENRY PRATT	463284DD-1-10	N/A	BUTTERFLY VALVE	2003	REPLAC EMENT	YES	
			<del></del>					
						·		
		·						
7. Description of W	Vork REPLACED C	COMPLETE VALVE						
0. 1 8515 CUHUUCIE	J. Hydrostatic ປ ກ Other □ Press	nounciis Z Heminel urepsi	Operating Test Temp				[	
in., (2) int	ormation in items 1	of lists, sketches, or d through 6 on this repo sheets is recorded at	rt is include	ed on each sheel	ded (	1) size is 8½ (3) each sh	4 in. x 11 eet is	

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9. Remarks TRACKING NO. RR - 05 - 034 Applicable Manufacturer's Data Reports to be Attached
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this REPLACEMENT conforms to the
repair or replacement
rules of the ASME Code, Section XI.
Time Code Combal Clare - N/A
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Calle Maintenance Specialist Date 10/12 20 03
Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Teuressee and employed by HSB-CT
of Mart Ford Ct. have inspected the components described in this
Owner's Report during the period/0/3/03 to/0/13/03 and state that to the best of
my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss
of any kind arising from or connected with this inspection.
R - C 1
Inspector's Signature Commissions TN2534  National Board, State, Province, and Endorsements
Inspector's Signature National Board, State, Province, and Endorsements
Date /0//2 20 0.3
and the same of th

		NER'S REPORT FOR d by the Provisions of				S) (	
1. Owner TENN	ESSEE VALLEY A	UTHORITY	Date 0	1-22-2003			
1101 Ma	rket St., Chattanoo	oga, TN 37402	Sheet	/ of 2			
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1			
P. O. Box 2000, Spring City, TN 37381			W/O 02-0	013272-000			
3. Work Performed by MECHANICAL MAINTENANCE P.O. BOX 2000 SPRING CITY,TN 37381			Type Cod	Repair Organization P e Symbol Stamp	.O. No. N/A	, Job No., etc.	
			Authoriza	tion No N/A			
Address			Expiration	Date N/A			
4. Identification of	system 067 - E.F	R.C.W.		<u></u>			
5. (a) Applicable C	Construction Code	Sect.III 19 74	Edition, 1	n/a Addend	a, n/a	Co.	de Case
(b) Applicable E	dition of Section XI	Utilized for Repairs or	Replacem	ents 1989		<del>_</del>	
6. Identification of	Components Repai	red or Replaced and F	Replaceme	nt Components		<del>-</del>	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)
VALVE 1-FCV-067-0104-A	HENRY PRATT	D-0045-6-6	N/A	BUTTERFLY VALVE	1976	REPLAC ED	YES
VALVE 1-FCV-067-0104-A	HENRY PRATT	<u>4632840D-1- 7</u>	N/A	BUTTERFLY VALVE	2003	REPLAC EMENT	YES
			<del> </del>				·
BOLTING MATE 3/4" ALL-THD	NOVA	HT#NA	NIA	207 359 95051	1998	REPLACED	NA
NUTS - 3/4"	NOVA	#T# 887035	NIA			RCARED	NA
7. Description of V	Vork REPLACED (	COMPLETE VALVE	l				
8 Tests Conducted	d Hvdrostatic □ P Other □ Press	neumatic   Nominal	Operating Test Fem	Pressure X			
in., (2) int	formation in items 1	of lists, sketches, or d through 6 on this repo	nt is includ	ed on each shee			

FÓRM NIS-2 (Back)
9. Remarks TRACKING NO. RR - 05 - 035
TAPPENDIC MINISTRACT DOCUMENTS DE AMERICO
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<u></u>
CERTIFICATE OF COMPLIANCE
. We certify that the statements made in the report are correct and this REPLACEMENT conforms to the
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed — Callin Maintonance Specialist Date 10/15 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Trunssee and employed by HSB-CT
of Hartfard CT. have inspected the components described in this
Owner's Report during the period 10/3/03 to 10/3/03 and state that to the best of
my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss
of any kind arising from or connected with this inspection.
Inspector's Signature Commissions Tv 2534  National Board, State, Province, and Endorsements
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	FORM NIS-2 OW As Require	NER'S REPORT FOR d by the Provisions of	REPAIRS THE ASME	OR REPLACEM Code Section X	MENT	S		
1. Owner TENN	ESSEE VALLEY A	UTHORITY	Date 01	1-22-2003		<del></del>		
1101 Ma	Name rket St., Chattanoo	oga, TN 37402	Sheet	/ of 2				
2. Plant Watts	Address Bar Nuclear Plant		Unit Unit 1					
P. O. Bo	Name x 2000, Spring City	y, TN 37381	W/O 02-013273-000					
3. Work Performed by MECHANICAL MAINTENANCE			Type Cod	Repair Organization P e Symbol Stamp	.O. No. N/A	, Job No., etc.		
P.O. BOX 2000 SPRING CITY,TN 37381			Authorizat	lion No N/A				
	Address		Expiration	Date N/A		,,,,		
4. Identification of	system 067 - E.F	R.C.W.						
• • • •	onstruction Code _				a, n/a	Cod	de Case	
(b) Applicable E	dition of Section XI	Utilized for Repairs or	Replacem	ents 1989	_			
6. Identification of	Components Repai	red or Replaced and R	Replacemer	nt Components			1000	
Name of Component	Name of Manufacturer	Manufacturer Señal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)	
VALVE 1-FCV-067-0107-A	HENRY PRATT	D-0045-6-9	N/A	BUTTERFLY VALVE	1976	REPLAC ED	YES	
VALVE 1-FCV-067-0107-A	HENRY PRATT	46328HPD-1-G	N/A	BUTTERFLY VALVE	2003	REPLAC EMENT	YES	
BOLTING MAT'L 3/4 ' ALL- THO	NOVA q.	HT# NAT P. 8 7 0 3 S	MA	201 # 35995051	199E	RERNCO	NA	
	१०(४)	3						
NUTS-3/47	NOVA	HT 1387635	NIA			REPLACED	MA	
7. Description of W	ork REPLACED C	COMPLETE VALVE	_					
8. Tests Conducted		neumatic П Nominal urepsi						
in., (2) inf	ormation in items 1	of lists, sketches, or d through 6 on this repo sheets is recorded at	rt is include	ed on each sheet				

FORM NIS-2 (Back)
9. Remarks TRACKING NO. RR-05 - 036
Applicable Minimizations and Reports to be Attached
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this REPLACEMENT conforms to the
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Collin Maintenance Spreight Date 10/14 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission Issued by the National Board of Boller and Pressure Vessel
Inspectors and the State or Province of Tennessee and employed by HSB-cT
of HarTfard CT. have inspected the components described in this
Owner's Report during the period 10/3/03 to 10/15/03 and state that to the best of
my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss
of any kind arising from or connected with this inspection.
Bruce M. Eamist Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements
Date 13/15/23 20 03
ALLEND COMMERCIAL CONTROL OF THE CON

	FORM NIS-2 OV As Require	VNER'S REPORT: FOR ed by the Provisions of	REPAIRS IN ASME	OR REPLACE!	MENT	St.		
1. Owner TENN	NESSEE VALLEY A	UTHORITY	Date 0	1-22-2003				
1101 Ma	Name arket St., Chattano	oga, TN 37402	Sheet / of 2					
2. Plant Watts	Address Bar Nuclear Plant	<b>.</b>	Unit U	nit 1				
P. O. Bo	Name ox 2000, Spring Cit	y, TN 37381		13274-000				
P.O. BOX 2000 SPRING CITY, TN 37381 Address			Type Cod	Repair Organization P e Symbol Stamp	N/A	, Job No., etc.		
			Authoriza	lion No N/A				
			Expiration	Date N/A				
4. Identification of system								
* * * * *	Construction Code	Sect.III 19 74 Utilized for Repairs or	Edition, r		a, <u>n/</u> a	Co	de Case	
		red or Replaced and F	·		-			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)	
VALVE 1-FCV-067-0099-A	HENRY PRATT	1-0045-6-1	N/A	BUTTERFLY VALVE	1976	REPLAC ED	YES	
VALVE 1-FCV-067-0099-A	HENRY PRATT	H6328400~1~1	N/A	BUTTERFLY VALVE	2003	REPLAC EMENT	YES	
				,9C10114/03				
BOLTING MAT'L 3/4" ALL THD	NOVIA	HT#NIA	N/A	6/35995)	1998	Replaced	NA	
NUTS -3/4"	NOVA	HT# B 87035	NA	051		Replaced		
			<u> </u>					
7. Description of V	Vork REPLACED (	COMPLETE VALVE	E Bou	TING MAT	Γ <i>′</i> L			
O, Tario Canducto	•	neumatic D. Nominal surepsi						
in., (2) in	formation in items 1	of lists, sketches, or d through 6 on this repo	rt is include	ed on each sheel				

プロストン (2.3 III.) アルドラ FORM NIS-2 (Back) (1.3 II.) (1.3 III.) (1.3 II.) (1.3 III.) (1.3
9, Remarks TRACKING NO. RR - 05 - 037
Applicable Manufacturer's Data Reports to be Attached
··
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this REPLACEMENT conforms to the
repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Calle Maintenance Specia list Date 10/14 20 03
Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Texuessee and employed by HSB-CT
of have inspected the components described in this
Owner's Report during the period 10/3/03 to 10/15/03 and state that to the best of
my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss
of any kind arising from or connected with this inspection.
Shue M. Eamy's Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements
Date 10/13 20 53
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and the control of the companies of the control of the control of a superior of a superior of the control of th

	FORM NIS-2 OWI As Required	VER'S REPORT FOR	REPAIR the ASM	S.OR E.Cod	REP Sec	AGEN tion X	(ENT	SY/XXXX	
1. Owner TENN	ESSEE VALLEY A	JTHORITY ·	Date	10/	05/0	13			
1101 Ma	rket St., Chattanoog	ja, TN 37402	Sheet _	1	of				
2. Plant Watts	Address Bar Nuclear Plant		Unit	Jnit 1					
P. O. Bo	x 2000, Spring City,	TN 37381	WBN MAINT. W.0. 01-013232-000						
3. Work Performe	Address d by WATTS BAR NI	JCLEAR PLANT	Repair Organization P.O. No., Job No., etc. Type Code Symbol Stamp N/A						
P.O. BOX 2000, SPRING CITY, TENN. 37381			Authoriz	ation N	lo N	/A			
Address			Expiration	n Date	· N	 ⁄A			
4. Identification of	system SYSTEM	062/CVCS							
5. (a) Applicable (	Construction Code	ASME SECT. III 19 71	Edition,	VINTER 1971	A	ddenda	a, N/A	Cod	ie Case '
(b) Applicable E	Edition of Section XI	Utilized for Repairs of	r Replac	ements	<u> </u>	1989	_		
6. Identification of	Components Repai	red or Replaced and	Replacen	nent C	ompo	nents			
									ASME Code
			National					Repaired, Replaced, or	Stamped (Yes or
Name of Component 1-PMP-062-0108-A	PACIFIC PUMPS	Manufacturer Serial No. B 48604	Beard No 13		774		1974	Replacement REPLACED	No)
1-PMP-062-0108-A	PACIFIC PUMPS	B48604	13		HEA	S-AE	1974	REPLACE	NO
OB SEAL PLATE	p:(' P	B48532	N/A	F	7#		74	Replace-	Νο
1-PNP-62-101-11	Pacific Pump			1 7	H77#			Replace-	No
CB Soal Plate		848532	13.	577	85-2	<i>U-AB</i>	74	<del>                                     </del>	
1-PMP-62-108+	Pacific Pimp	48590	PA	०० १ थ ग	MA		74	NA	NU
		_		<u>.</u>					·
7. Description of V	Vork REPLACE OL	JTBOARD MECHANI	ICAL SEA	L , 1-F	MP-	062-01	A-80		
	Other Press	neumatic D Noming	si Test	Temp	N	<u> 2.T</u>	_ <b>°</b> F		
11 in., (2	) information in item	tion fish, of lists, skelches, or s 1 through 6 on this of sheets is recorder	report is i	include	ed on	each s	vided sheet,	(1) size is 8 and (3) eac	1½ in. x

(CELL COMMON CO
9. Remarks TRACKING NO.: RR-05-045
Application Manufacturer's Data Reports to be Attached
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this Replacement conforms to the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Ollie Mantenance Specialist Date 10/7 20 63
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of <u>Terwessee</u> and employed by <u>HSB-CT</u>
of HarTFord CT. have inspected the components described in this
Owner's Report during the period 2/14/03 to 10/8/23 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the empiricance in the ASAR Code Spation XI.
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
. 1
Inspector's Signature Commissions TN 253 Y  National Board, State, Province, and Endorsements
** /~
Date 10/5 20 20

	FORM NIS-2 OWN As Required	VER'S REPORT FOR by the Provisions of	REPAIRS	OR REPLACEM	ENT	Sf J	
1. Owner TE	NNESSEE VALLEY AL	JTHORITY	Date	10-17	-0	3	
1101	Name Market St., Chattanoog	ja , TN 37402	Sheet	1 of 2			
2. Plant Wa	Address atts Bar Nuclear Plant		Unit U	Jnit 1			
P. O.	Box 2000, Spring City,	TN, 37381		der 02-012478-00			
3. Work Perfor	med by TVA Modifical	lions	Type Co	Repair Organization F de Symbol Stamp	0. N	o., Job No., etc. 'A	
Watts Bar Nuclear Plant			Authoriz	ation No N/A			
Address 4. Identification of system 015 STEAM GENERATOR			Expiration				
(b) Applicab	le Construction Code  le Edition of Section XI  n of Components Repai	Utilized for Repairs o	•	ments 1989	a, <u>N</u>	I/A Coo	de Case
Name of Compone	ent Name of Manufacturer	Manufacturer Serial No.	National Board No	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PIPE-015-B	N/A	N/A	N/A	N/A	NA	Replaced	No
					 		•
				-	-		
8. Tests Condu	of Work REPLACE C  ucted: Hydrostatic D F  Citize D. Pres  lemental sheets in form	Pneumatic D Nomina	al Operation	SZ ng Pressure = 02	EE V Z-0/ °F	IORK ORL 2478 - OC	9/
11 in.	iemental sheets in form ., (2) information in item inbered and the numbe	ns 1 through 6 on this	report is i	ncluded on each:			

Appendix IV Page 33 of 100

FORMINIS 2 (Back)
9. Remarks Code Case N-416-7 Tracking No. PR-05-047 Applicable Manuacturer's Data Reports to be Atlanted
2 2017/2003
•
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the repair or replacement rules of the ASME Code, Section XI.
Tules of the Admic Gode, Godion XI.
Type Code Symbol Stamp
Certificate of Authorization No.
Signed SABORY FIELD ENGINEER Date 10-17 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB-cT
of have inspected the components described in this
Owner's Report during the period 2/19/03 to 10/17/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or Implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Bruce M. Earnigh Commissions TN2534
Inspector's Signature National Board, State, Province, and Endorsements
Date 10/17 20 0 3
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	FORM NIS-2 OWN As Required	VER'S REPORT FOR I by the Provisions of t	REPAIRS he ASME	OR REPLACEM Side Section XI	ENT	S	¥,	
1. Owner TENN	VESSEE VALLEY AL	JTHORITY	Date	10/17/2003	,			
1101 Ma	Name arket St., Chattanoog	a , TN 37402	Sheet	1 of 2				
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1				
P. O. Bo	Name ox 2000, Spring City,	TN, 37381	Work Order 02-012478-002					
3. Work Performed by TVA Modifications			Type Cod	tepair Organization P e Symbol Stamp	.o. N	o., Job No., etc. A		
Watts Bar Nuclear Plant			Authorizat	ion No N/A	_			
	Address		Expiration	Date N/A				
4. Identification of	system 015 STE	AM GENERATOR BL	OWDOWN					
1 '''	Construction Code		Edition, S		a, N	I/A Cod	le Case	
(b) Applicable I	Edition of Section XI	Utilized for Repairs or	Replacem	ents 1989		<del></del>		
B. Identification of	Components Repai	red or Replaced and F	Replaceme	nt Components				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, cr Replacement	ASME Code Stamped (Yes or No)	
1-PIPE-015-B	N/A	N/A	N/A_	N/A	NA	Replaced	No_	
						- <del>-</del> -	-	
		•			-		,	
						ļ		
			<del> </del>		_	<u> </u>		
<u> </u>						<del></del>		
			<u> </u>		<u> </u>	<u> </u>		
7. Description of	Work REPLACE C	ARBON STEEL FITTI	NGS WITH	CHROME-MOI	LYF	ITTING		
8. Tests Conduct	ed: Hydrostatic D F	Pneumatic D Nomina		Pressure = 02		NBRK DR 12478-0		
11 in., (	2) information in item	of lists, sketches, or one of lists, sketches, or one of this is the order of sheets is recorded	report is ind	duded on each s				

Appendix IV Page 35 of 100

FORM NIS-2 (Back)
9. Remarks Code Case N-416-1 Tracking No. RR-05-0#8  Applicable Manufacturers Data Reports to be Atlanted
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the repair or replacement rules of the ASME Code, Section XI.
Tuics of the Nowe Code, Codes (N.
Type Code Symbol Stamp N/H
Certificate of Authorization No.
Signed Kutti Could FIELD ENGINEER Date 10/17/2003 20 03  Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Texassee and employed by HSB-CT
of have inspected the components described in this
Owner's Report during the period
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the Inspector nor his employer shall be liable in any manner for any personal Injury or property damage or a
loss of any kind arising from or connected with this inspection.
- Brun M. Earnigh Commissions Tw2534 Inspector's Signature National Board, State, Province, and Endorsements
Date
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		ERS REPORT FOR by the Provisions of	REPAIRS he ASME (	DR REPLACEM Lode Section XI	ENT	S ALVENIE	1			
1. Owner TENN	ESSEE VALLEY AL	JTHORITY	Date	10/17/200	3					
1101 Mai	Name rket St., Chattanoog	a , TN 37402	Sheet	1 of 2						
2. Plant Watts	Address Bar Nuclear Plant		Unit Ur	nit 1						
P. O. Bo	Name x 2000, Spring City,	TN, 37381	Work Order 02-012478-003							
3. Work Performed	Address by TVA Modificat	ions	Type Cod	lepair Organization P e Symbol Stamp	.0. N	A., Job No., etc.				
Watts Bar Nuclea	r Plant	lame	Authorizat	ion No N/A						
	Address		Expiration	Date N/A						
4. Identification of	system 015 STE	AM GENERATOR BL	OWDOWN				-			
5. (a) Applicable C	construction Code	ASME III 19 71	Edition, S	73 Addenda	a, N	VA Cod	le Case			
(b) Applicable E	dition of Section XI	Utilized for Repairs of	Replacem	ents 1989						
6. Identification of	Components Repai	red or Replaced and F	Replaceme	nt Components						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped (Yes cr No)			
1-PIPE-015-B	N/A	N/A	N/A	N/A	NA	Replaced	No			
- <del></del> -										
<u> </u>			<del> </del>		<del> </del>					
ļ			<del> </del>							
	l		<u> </u>	L		<u> </u>				
7. Description of V	Vork REPLACE C	ARBON STEEL FITTI	NGS WITH	CHROME-MO	LYF	ITTING				
8. Tests Conducte	8. Tests Conducted: Hydrostatic   Pneumatic   Nominal Operating Pressure   SEE Work Order. Other   Pressure   psi Test Temp   "F									
11 in., (2	) information in item	of lists, sketches, or ins 1 through 6 on this in of sheets is recorded	report is inc	cluded on each s	vided sheet	d (1) size is t, and (3) ea	8½ in. x ch sheet			

方的RM NIS-2:(Back) 注意 以
9. Remarks Code Case N-416-1 Tracking No. RR-05 - 049  Applicable Manufacture's Data Reports to be Atlached
wn09/7/2003
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the
rules of the ASME Code, Section XI.
Tules of the Admic Code, dection XI.
Type Code Symbol Stamp
Certificate of Authorization No.
Signed Hunth Currel PADENGINEER Date 10/17 20 03
Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Fewessec and employed by HSB-cT
of HarTford CT. have inspected the components described in this
Owner's Report during the period 2/19/03 to 10/17/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
In this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
- Bruce M. Earnigh Commissions TN2534
Inspector's Signature  National Board, State, Province, and Endorsements
Date
mentalistic and data to the control of the control

	1. Owner		ESSEE VALLEY AL Name ket St., Chattanoog	·	Date <u>24</u> Sheet	100 1011111111111111111111111111111111	(17/	2843		
	2. Plant	Plant Watts Bar Nuclear Plant  Name P. O. Box 2000, Spring City, TN, 37381				it 1				
						Work Order 02-003680-000				
	3. Work Performed by TVA Modifications  Watts Bar Nuclear Plant  Address  4. Identification of system 062 CHEMICAL AND VOLUM				Type Code	epair Organization P Symbol Stamp	N/.	A.		
					Authorizat	ion No N/A				
					Expiration ME CONTRO					
			onstruction Code		1 Edition, S		a, N	/A Cod	ie Case	
	, , , , ,			Utilized for Repairs	•		_			
	Name of Cor	nponent	Name of Manufacturer	Manufacturer Serial Na		Other Identification	Year Bullt	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
	1-ISV-062-	564-5	KEROTEST	MA 500 NO 03.	A16925.	24 <del>2</del>		Replaced		
-2	1-ISV-06	2-0565-S	KEROTEST	J52-23	NA	NA	MA	Kepleced	- <del>/</del> -Y	
აიკ	1-ISV-62	-0567-5	Kerotest .	J52-22	MA	NA	NA	Replaced	-A-Y	
003	1-62A-1	<u>وم</u>	N/A	_N/A	N/A_	N/A	ŊA	Replaced	N	
		-						·		
	<del></del>		<del></del>							
	7. Description of Work Remove and reinstall Valve 1-ISV-062-564-s, I-ISV-062-0565-S, I-ISV-062-									
	8 T4- C	ond	0567-5 W	nal Operating	Pressure	rt 1.	-GZA-10	9.913070		

Appendix IV Page 39 of 100

FORM NIS-2 (Back))。
9. Remarks Code Case N-416-22 Tracking No. RR-05-052
191114-3
· · · · · · · · · · · · · · · · · · ·
<u></u>
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the repair or replacement rules of the ASME Code, Section XI.
Type Code Symbol Stamp
Certificate of Authorization No.
Type Code Symbol Stamp  N/A  Certificate of Authorization No.  Signed Kulfu Caulf FIBD ENGR Date 10/13 20 03
Owner or Owner's pesignee, Tale
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Texassee and employed by HSB-CT  of HATTORD CT. have inspected the components described in this
Owner's Report during the period 2/28/63 to 10/17/03 and state that to the be
of my knowledge and belief, the Owner has performed examinations and taken corrective measures describe
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Brue M. Emil Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements
Date
The second control of

		NER'S REPORT FOR by the Provisions of					****			
1. Owner TENN	ESSEE VALLEY A	UTHORITY	Date 0	3-05-2003						
1101 Ma	Name rket St., Chattanoo	oga, TN 37402	Sheet	/ of 2						
2. Plant Watts	Address Bar Nuclear Plant		Unit Unit 1							
P.O.Bo	Name x 2000, Spring Cit	y, TN 37381	W/O 02-016870-000							
3. Work Performed	Address d by MECHANICAL	MAINTENANCE	Type Cod	Repair Organization P e Symbol Stamp	.O. No. N/A	, Job No., etc.				
P.O. BOX 2000 SI	PRING CITY,TN 37	lame 381	Authorizal	ion No N/A						
	Expiration	Date .N/A								
4. Identification of	4. Identification of system 062 - C.V.C.S.									
5. (a) Applicable Construction Code Sect.III 19 71 Edition, n/a Addenda, DEC,72 Code Case										
(b) Applicable E	dition of Section XI	Utilized for Repairs or	Replacen	ients 1527						
6. Identification of	Components Repai	red or Replaced and F	Replaceme	nt Components						
Name of Component	Name of Manufacturer	Manufacturer Serial No. していかい	National Board No.	Other identification	Year Built	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes cr No)			
VALVE 2- 1-RFV-067-0675-S	CROSBY VALVE		N/A	RELIEF VALVE	1977	REPLAC ED	YES			
500 10/5/03		10/312		ANCAE		LD				
VALVE 1-RFV-062-0675-S	CROSBY VALVE	N56900-00-0005	N/A	RELIEF VALVE	1977	REPLAC EMENT	YES			
						-				
					<b>_</b>					
7. Description of W	/ork REPLACED C	OMPLETE VALVE			<del></del>		• • • • • • • • • • • • • • • • • • • •			
Other   Pressure psi   Test Temp *F										
11 in., (2)	information in item	of lists, sketches, or d s 1 through 6 on this r of sheets is recorded	eport is Inc	luded on each sl	ided ( heet, a	1) size is 8 and (3) eac	½ in."x" h sheet			

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FORM NEZ Back)	60
9. Remarks TRACKING NO. PR - 05-055 Applicable Manufacturer's Data Records to be Afached	
CERTIFICATE OF COMPLIANCE	
	PLACEMENT_ conforms to the or replacement
rules of the ASME Code, Section XI.	و. چه لاست
Type Code Symbol Stamp N/A	·
Certificate of Authorization No. N/A	•
Signed Of Collin Maintenance Specialist Date Owner or Owners Designee, Title	e <u>10/5</u> 20 63
CERTIFICATE OF INSERVICE INSPECTION	DN
I, the undersigned, holding a valid commission issued by the National Board	of Boiler and Pressure Vessel
Inspectors and the State or Province of Terressee and employed by	HSB-CI
of Hartford ct. have inspected the com	ponents described in this
Owner's Report during the period 3/25/03 to 10/7/03	
of my knowledge and belief, the Owner has performed examinations and tal	1
in this Owner's Report in accordance with the requirements of the ASME Co By signing this certificate neither the inspector nor his employer makes any	
concerning the examinations and corrective measures described in this Own	
the inspector nor his employer shall be liable in any manner for any persona	·
loss of any kind arising from or connected with this Inspection.	
Brue M. Earrigh Commissions TN 2534	
	ite, Province, and Endorsements
Date 10/7 20 03	1
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	FORMINIS-2 OWN As Required	JER'S REPORT FOR by the Provisions of	REPAIRS	OR REPLACEN Code Section X	IENTS	Ŷ,				
1. Owner TENN	ESSEE VALLEY AL	JTHORITY	Date							
1101 Ma	rket St., Chattanoog	a, TN 37402	Sheet _	1 of	2					
2. Plant Watts	Address Bar Nuclear Plant		Unit L	Jnit 1						
P. O. Bo	Name x 2000, Spring City,	TN 37381	WORK ORDER# 03-004777-000							
3. Work Performed	Address d by TVA MODIFIC	CATIONS	Repair Organization P.O. No., Job No., etc. Type Code Symbol Stamp N/A							
WATT	S BAR NUCLEAR F	lame PLANT	Authoriza	ation No N/A						
	Address		Expiratio	n Date N/A	•	<del></del>				
4. Identification of	system REACTO	OR COOLANT SYSTE	-	•						
(b) Applicable E	dition of Section XI	ASME SECT. III 19 71 Utilized for Repairs or red or Replaced and F	Replacei	ments 1989	a, <u>N</u>	<u>/A</u> Cod	le Case			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Ccde Stamped (Yes or No)			
1-DRV-68-581	KEROTEST	KP26-19	N/A	N/A	N/A	REPLACEMENT	YES			
				-						
<del></del>				ļ	<u> </u>					
	•									
						]				
<del></del>										
7. Description of V	Vork INSTALLED A	CAP OVER THE YO	KE AND	SEAL WELDED	IT TO	THE VALVE	BODY			
8. Tests Conducte	d: Hydrostatic 🗆 P Other 🗈 Press	neumatic	l Operatin Test Te	g Pressure D	الاه الاه	TESTING , ~0 \$/ 2/2	ReQ'D ==3			
11 in., (2)	) information in item	of lists, sketches, or o is 1 through 6 on this r of sheets is recorded	report is in	cluded on each :	sheet,	and (3) eacl				

NIS-2 FORM SHEET 2 OF 2 9. Remarks CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the repair or replacement rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by HSBCT of Hartford Cown have inspected the components described in this Owner's Report during the period 3/11/0.3 to 3/14/0.3 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Inspector's Signature Commissions 7N 3178

National Board, State, Province, and Endorsements

Date 717 2005

	EORM NIS-2 OW As Required	NER'S REPORT FOR I by the Provisions of	REPAIRS The ASME	OR REPLACEN Code Section XI	ENT:	3				
1. Owner TENN	IESSEE VALLEY A	UTHORITY	Date	3/6/03	<b>L</b>					
*****	Name Irket St., Chattanoo		_	/ of Z						
-	Address Bar Nuclear Plant			nit 1			·			
	Name x 2000, Spring Cit		W/O 02-016877-000							
	Address d by MECHANICAL		Repair Organization P.O. No., Job No., etc.							
	·	Vame	Type Code Symbol Stamp N/A							
P.O. BOX 2000 S	PRING CITY,TN 37 Address	381		lion No <u>N/A</u>			-			
4. Identification of	system SYSTEM	1 068 REACTOR	-	Date N/A						
(b) Applicable E		Sect.III 19 71 Utilized for Repairs or red or Replaced and F	·	ents 1989	a, NC	ONE Co	de Case			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacemen t	No)			
1-RFV-068-565	CROSBY VALVE	N56964-10-0097	N/A	SAFETY VALVE	1979	REPLACED	YES			
1-RFV-068-565	CROSBY VALVE	N56964·10- 6095	NA	SAFETY VALVE	1979	Replace- hient-	YES			
			· · · · · · · · · · · · · · · · · · ·							
				the sected						
7. Description of V	Vork <u>Replace</u>	Volve with n	ewhou	l ven						
/- NOTE: Supplement 11 In., (2)	Other M Press TRI - GB-L ental sheets in form Information in Item	of lists, sketches, or ds 1 through 6 on this roof sheets is recorded	Test Ter rawings ma	no ay be used, prov luded on each s						

Appendix IV Page #5 of 100

FORM NIS-2 (Báck)
9. Remarks TRACKING NO. RR-05-061 CODE CASE N-416-121 -/15/20-3
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this repair or replacement conforms to the
rules of the ASME Code, Section XI.
Tules of the Activity Couldn'y.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Of Cilli Maintenance Specialist Date 10/15 20 03  Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Texessee and employed by HSB-cT
of have inspected the components described in this
Owner's Report during the period 3/18/03 to 10/16/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Bruce M. Eamiesh Commissions Tv 2534 Inspector's Signature National Board, State, Province, and Endorsements
Date
l l

	10000	FORM NIS-2 OW	NER'S REPORT FOR	REPAIR	251					CEIIOF 2	
			i by the Provisions of								
1. Owner	TENN	ESSEE VALLEY A	UTHORITY	Date			10/14	103			
110	01 Mai	Name rket St., Chattanoog	ja, TN 37402	Sheet		1	of _		2		
2. Plant	Watts	Address Bar Nuclear Plant		Unit	Un	it 1	_				
P. (	O. Box	Name < 2000, Spring City,	TN 37381	WORK ORDER# 02-012479-000							
3. Work Peri	formed	d by TVA MODIFI	CATIONS	Repair Organization P.O. No., Job No., etc. Type Code Symbol Stamp N/A							
V	NATT	S BAR NUCLEAR	Name PLANT	Authori	izati	on i	10	N/A			
		Address		Expirat	ion	Data	<u> </u>	N/A		•	
4. Identificat	4. Identification of system SAFETY INJECTION - SY					<b>-</b>	٠	Turt			
5. (a) Applica	able C	onstruction Code	ASME SECT. III 19 71	Edition	, s'	73	Add	denda	a, N.	/A Cod	ie Case '
(b) Applica	able E	dition of Section XĨ	Utilized for Repairs o	r Replac	eme	ents	1	989		<del></del>	
6. Identificati	ion of	Components Repai	red or Replaced and F	Replacer	nen	t Co	mpon	ents			
Name of Comp	conent	Name of Manufacturer	Manufacturer Serial No.	Nationa Board N		Othe	r Identifi	cation	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-CKV-063-0		Flowserve	04AWR	NIA			JA		2003	REPLACEMENT	YES
1-01(1-000-0	,,,,,	rawsasie	0 11101	1 717	`	r	<u>ur</u>	-	200	REPLACEMENT	1,22
<u> </u>					+						
			•	ļ	-						
				}	_}						<b> </b>
				<u> </u>	_						
·					_					ļ	
7. Description	n of W	/ork REPLACED 2	" CHECK VALVE 1-C	KV-063-	072	5					
8. Tests Con	ducted	i: Hydrostatic □ P Other □ Press	neumatic 🛭 Nomina surepsi	l Operati Test 1	ing I Tem	Pres	ssure	<b>#</b> (		ork order 2479-001	
11 î	in., (2)	information in Item	of iisis, કોર્સ્ટાડોલ્ડ, અ લ is 1 through 6 on this i of sheets is recorded	report is	incl	ude	d on ea	ach s	heet, a	and (3) eacl	

NIS-2 FORM SHEET 2 OF 2 CODE CASE N-416-1 918 3 TRACKING# 9. Remarks CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the repair or replacement rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. 20 03 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB-CT HARTFord CT. \_\_\_\_\_ have inspected the components described in this Owner's Report during the period  $\frac{5}{6} = \frac{5}{6} = \frac$ of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, nelther the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions TN 2534
National Board, State, Province, and Endorsements

#** 	FORM NIS-2 OW As Require	NER'S REPORT FOR they the Provisions of	REPAIRS the ASME	OR REPLACEN Code Section XI	ENT				
1. Owner TENN	1. Owner TENNESSEE VALLEY AUTHORITY			8-04-2003					
Name 1101 Market St., Chattanooga, TN 37402			Sheet	/ of 2					
2. Plant Watts	Address Bar Nuclear Plant	<u> </u>	Unit U	nit 1			-		
P. O. Box 2000, Spring City, TN 37381			W/O 03-0	003743-001			,		
3. Work Performed by MECHANICAL MAINTENANCE			Type Cod	Recair Organization F le Symbol Stamp	N/A	. Job No., etc.			
P.O. BOX 2000 S	PRING CITY,TN 37	Varne 381	Authorization No N/A						
	Address		Expiration	Date NA			· <u>-</u>		
4. Identification of	system 001-MAI	N STEAM							
(b) Applicable E	Edition of Section XI	Sect.III 19 74 Utilized for Repairs or red or Replaced and F	Replacen	nents 1989	a, <u>n/</u> a	ı Co	de Case		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacemen t	ASME Code Stamped (Yes or No)		
1-SFV-001-0514	DRESSER - CONSOLIDATED	BS06233	NA	ÑΑ	77	REPLAC ED	YES		
4 OFFI 204 0544			AT/A	N/A		DEDI AO	VEC		
1-SFV-001-0514	DRESSER - CONSOLIDATED	B506238	N/A	N/A	77	REPLAC EMENT	162		
7. Description of W	Vork REPLACED N	MAIN STEAM SAFETY	YVALVE						
8. Tests Conducted	d: Hydrostatic P	neumatic Nominal	Operating	Pressure D	F				
11 in., (2)	information in item	of lists, sketches, or d s 1 through 6 on this r of sheets is recorded	eport is inc	luded on each s					

FORM NIS-2 (Back)
9. Remarks TRACKING NO. RR - 05 - 078 Application Mathematical and the points to be Allached
<u> </u>
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this <u>PROGEMENT</u> conforms to the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Aculin Maintenance Speialist Date 10/21 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Texuessee and employed by HSB-CT
of have inspected the components described in this
Owner's Report during the period 8/3/03 to /3/21/03 and state that to the bes
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
In this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or Implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
-
Bruce M. Earnigh Commissions TN 2534
Inspector's Signature O National Board, State, Province, and Endorsements
Date 10/21 20 03

1. Owner TEN	NESSEE VALLEY A	Date 0	8-04-2003						
Name 1101 Market St., Chattanooga, TN 37402			Sheet / of 2						
<del></del>	Address Bar Nuclear Plant		Unit Unit 1						
	Name ox 2000, Spring Cit		W/O 03-003743-000						
	Address d by MECHANICAL			Recair Organization F le Symbol Stamp	2.O. No.	. Job Na., etc.			
	· -	Varne		ition No N/A	147				
1.0. BOX 2000 C	Address			n Date NVA					
4. Identification of	system 001-MAI	N STEAM	Expiration	I Date IVA					
(b) Applicable I	Edition of Section XI	Sect.III 19 74 Utilized for Repairs of red or Replaced and	r Replacen	nents 1989	a, <u>n/a</u>	Co	de Case		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Bullt	Repaired, Replaced, or Replacemen			
1-SFV-001-0513	DRESSER - CONSOLIDATED	BS06241	NA	N/A	77	REPLAC ED	YES		
1-SFV-001-0513	DRESSER - CONSOLIDATED	B506221	N/A	N/A	77	REPLAC EMENT	YES		
			-						
7. Description of V	Vork REPLACED N	MAIN STEAM SAFET	Y VALVE						
3. Tests Conducte	d: Hydrostatic P	neumatic Nomina	d Operating	Pressure					

FORM NIS-2 (Back)
9. Remarks TRACKING NO. A ROUGH MANUAL MANUA
Absence Livering on a Delia Lichalm on as Viterian
<u>.</u>
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>NDIGCOROL</u> conforms to the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed O Cille Maintenance Specialist Date 10/21 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Teuressee and employed by HSB-CT
of HArTFord CT. have inspected the components described in this
Owner's Report during the period 8/8/03 to 10/21/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
In this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
loss of any kind arising from or connected with this inspection.
Inspector's Signature Commissions TN 2534  National Board, State, Province, and Endorsements
Date 10/21 20 03

		VER'S REPORT FOR by the Provisions of						
1. Owner TENN	Owner TENNESSEE VALLEY AUTHORITY Date 05-16-2003							
1101 Ma	Sheet / of 2							
2. Plant Watts	Address Bar Nuclear Plant		Unit Unit 1					
P. O. Bo	Name x 2000, Spring Cit	y, TN 37381	W/O 02-0	15425-001			•	
3. Work Performed	Address by MECHANICAL	. MAINTENANCE	Type Cod	Repair Organization P e Symbol Stamp	N/A	, Jcb Na., etc.	•	
		Varne	Authorization No N/A					
	Address		Expiration	Date N/A		***		
4. Identification of	system 062 -CV	CS ASME COO	•					
5. (a) Applicable C	Construction Code		Edition, S		a, n/a	ı Cod	de Case	
(b) Applicable E	dition of Section XI	Utilized for Repairs or	Replacem	nents 1989	_			
6. Identification of	Components Repai	red or Replaced and F	Replaceme	nt Components				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Bullt	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)	
1-062A-N290- 03-A	TVA	N/A	N/A	WELD	NA	REPAIR ED	YES	
	•							
			-					
			-					
7. Description of W	ork REPAIRED P	IPE - BASE METAL F	REPAIR	_				
B. Tests Conducted	d: Hydrostatic P	neumatic **Nominal		Pressure	F			
11 ln., (2)	information in item	of lists, sketches, or d s 1 through 6 on this r of sheets is recorded	eport is inc	luded on each s	ided ( heet,	1) size is 8 and (3) eac	½ in. x h sheet	

** The Thirty Leading Commission (Pack)   1   1   1   1   1   1   1   1   1
9. Remarks TRACKING NO. RR-05-082 CODE CASE N-416-1
•
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this repair or replacement conforms to the
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Callin Sepherson MET Date 7/18/03 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of ILINESSEE and employed by
of <u>HANTFORD</u> OT. have inspected the components described in this Owner's Report during the period <u>5-/6-03</u> to <u>8-2/-03</u> and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
In this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
O.S. Metable Commissions IN-2633
Inspector's Signatule     National Board, State, Province, and Endorsements
Date 0-21 2005
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		NER'S REPORT FOR I by the Provisions of							
1. Owner	TENNESSEE VALLEY A	UTHORITY	Date	10-24-0	3				
110	Name 01 Market St., Chattanoo	ga, TN 37402	Sheet	/ of Z					
2. Plant	Address Watts Bar Nuclear Plant		Unit	Unit 1					
Р.	Name O. Box 2000, Spring City	y, TN 37381	MMG/WO# 03-014058-000 .						
3. Work Perl	Address formed by MECHANICAL	MAINTENANCE	Recair Organization P.O. No., Job No. etc. Type Code Symbol Stamp N/A						
WATTS BAR N SPRING CITY,	UCLEAR PLANT,PO BOX 2000	Vame	Authorization No N/A						
SPRING CITY,	Address		Expiration	on Date N/A					
4. Identificat	ion of system 068, REA	CTOR COOLANT S	•						
5. (a) Applica	able Construction Code	SECT III 19 71	Edition,	S73 Addend	a, N/A Co	de Case			
(b) Applica	able Edition of Section XI	Utilized for Repairs of	r Replac	ements 1989		·			
6. Identificati	ion of Components Repai	red or Replaced and	Replacer	nent Components					
		Manufachumu Cadal Na	National		Repaired, Year Replaced, or Build Replacement				
Name of Comp		Manufacturer Serial No. 2293	Board No	Other Identification	2plaumitt				
	<i>a</i>				RE PLATES				
CARTAIL	Westercherse	2287	~/1	ACP*2	Mercuid	N			
					<u> </u>				
		- · · · · · · · · · · · · · · · · · · ·							
		. <u>.</u>							
7. Description	n of Work <u>Replacement</u>	of #2 RCP (1-68-)	PINP-003	,					
8. Tests Con		neumatic PNomina		ing Pressure Temp	PEZ W.	9.000			
111	pplemental sheets in form n., (2) miormation in item umbered and the number	ຈ ໄ ເເລບບຽກ ວິ ບາກ ເເລີ	tchoir in	induded on each	ovided (1) size is 8 Ullact, and (0) ca	3½ in. x			

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FORMNIS-2 (Back)
9. Remarks R&R Tracking # RR-05-089
Pyphiano minimum a cale rapora a program
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this <u>AERIACIAENT</u> conforms to the repair or replacement rules of the ASME Code, Section XI.
Lates of the Montal Code, Collision.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
signed R. Los oughes Maint Specialistate 10/24 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennesce and employed by HSE-CT
of <u>Hartford</u> CT. have inspected the components described in this  Owner's Report during the period 9/7/03 to 10/24/23 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
In this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Bruce M. Earnigh Commissions TN2534
Inspector's Signature National Board, State, Province, and Endorsements
Date
and the second of the second o

1101 Market St., Chattanooga, TN 37402  Address Plant Watts Bar Nuclear Plant	Sheet / of 2
Plant Watts Bar Nuclear Plant	
	Unit Unit 1
P. O. Box 2000, Spring City, TN 37381	W/O 02-014450-000
Work Performed by MECHANICAL MAINTENANCE	Repair Organization P.O. No., Job No., etc. Type Code Symbol Stamp N/A
O. BOX 2000 SPRING CITY,TN 37381	Authorization No N/A
Address	Expiration Date N/A
Identification of system 001-MAIN STEAM	
(a) Applicable Construction Code Sect.III 19	74 Edition, S75 Addenda, n/a Code Case
(b) Applicable Edition of Section XI Utilized for Repa	ilrs or Replacements 1989
Identification of Components Repaired or Replaced a	and Replacement Components
larne of Component Name of Manufacturer Manufacturer Serial	National No. Other Identification Replaced, or Replaced, or Replaced, or No.
FCV-001-0029-T ATWOOD- 3-43824 GC19	110711   90
COVER MORRILL 13902-4 7-13028	W/A HTMIOLOGUES TO ALMAND VES
-FCV-001-0029-1 ATWOOD- 45244-1	Dolus MA MSIV 2003 REPRIE- NO MENT YES
DILOT MPPET MORRILL 3-13007KIU	MA 10200 77 REMARED YES
<del></del>	<del>-   -     -   -   -   -   -   -   -</del>
Description of Work Replaced Cover & Pilo	of Poppet on the MAIN Steam isolation wive
·	
Tests Conducted: Hydrostatic   Pressure  Other   Pressure	minal Operating Pressure 🖟 No. 1 Test Temp F

July 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
9. Remarks TRACKING NO. RK-05-090 . :
Applicant Maintacturer's Data Reports to be Attached
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>PUDIC CEMENT</u> conforms to the
rules of the ASME Code, Section XI.
, , , , , , , , , , , , , , , , , , , ,
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Cally Maintenance Specialist Date 10/20 20 03  Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Texmessee and employed by HSB-CT
of HarTFord CI have inspected the components described in this  Owner's Report during the period 9/8/03 to 10/21/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Bruce M. Earnighs Commissions TN2534
Inspector's Signature National Board, State, Province, and Endorsements
noto 10/21 on a3

		NER'S REPORT FOR 1 by the Provisions of				S	
1. Owner TENN	IESSEE VALLEY A	UTHORITY	Date	9/9/03			
1101 Ma	Name irket St., Chattano	oga, TN 37402	Sheet	/ of 2			
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1			
P. O. Bo	Name ox 2000, Spring Cit	y, TN 37381	W/O 02-	014449-000			
3. Work Performe	Address d by MECHANICAI	MAINTENANCE	Type Cod	Repair Organization I le Symbol Starn	P.O. No P N/A	., Job No., etc.	
P.O. BOX 2000 S	PRING CITY,TN 37	Name '381	Authoriza	tion No N/A			
	Address		Expiration	Date N/A			
4. Identification of	system 001-MAI	N STEAM					
(b) Applicable E		Utilized for Repairs of red or Replaced and F	•	nents 1989	_		de Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)
I-FCV-001-0022-T Cover	ATWOOD- MORRILL	4-13824-96412013 L3902-1	N/A	MSIV	1977	REPLACE -	YES
COVER	MONNIEL	2-13624	KIA	216057	77	REMARES	YES
FCV-001-0022-7	ATWOOD -	4-138247010120/03	N/A	MSIV	2023	REPLACE - MENT	YES 1
PILOT PORET		45244-2 2-13824	NA	117# 10260	77	REMARKA	<del></del>
. Description of W	vork Replaced Co	OVER AND PILOT PO	PIET ON	MSIV			
. Tests Conducted	d: Hydrostatic D P Other D Press	neumatic	Operating Test Ter		F		
11 in:, (2)	information in item	of lists, sketches, or d s 1 through 6 on this re	eport is inc	luded on each s			

FORM NIS-2 (Back)
9. Remarks TRACKING NO. RR- 05-091.
Applicable Manufacturer's Clara Reports to be Atlashed
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this the policy of the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed their Meintenance Specialist Date 10/20 20 63 Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>HSB-CT</u>
of HarTFord CT- have inspected the components described in this
Owner's Report during the period 9/9/03 to 16/21/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or properly damage or a
loss of any kind arising from or connected with this inspection.
Inspector's Signature Commissions TN2534  National Board, State, Province, and Endorsements
Data 13/01 00 03
والمنافق وال

		NER'S REPORT FOR I by the Provisions of				IS			
1. Owner TENN	NESSEE VALLEY A	UTHORITY	Date	9/12/2003					
1101 Ma	Name arket St., Chattanoog	ga , TN 37402	Sheet	1 of 2					
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1					
P. O. Bo	ox 2000, Spring City,	, TN, 37381	Work Order 02-014450-001						
3. Work Performs	Address ed by TVA Modifica	tions	Type Cod	Repair Organization F e Symbol Stamp	N.O.	o Job No etc /A	•		
Watts Bar Nuclea	ar Plant	Name	Authoriza	tion No N/A					
	Address		Expiration	Date N/A					
4. Identification of	system 003 Mair	and Auxillary feedwa	ter system						
(b) Applicable I		ASME III 19 71 Utilized for Repairs of red or Replaced and F	•	nents 1989	a, <u>1</u>	V/A Cod	de Case		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Beard No.	Other Identification	Year Built		ASME Code Stamped (Yes or No)		
1-PIPE-003-B	N/A	N/A	N/A	N/A	NA	Replaced	No		
					_				
					_				
	<u> </u>								
7. Description of V	Vork Remove and	reinstall piping to supp	oort 1-29 M	SIV disassembly	/				
8. Tests Conducte	d: Hydrostatic P. Other Press		Operating Test Ter	Pressure =	F				
11 in., (2)	) information in item	of lists, sketches, or d s 1 through 6 on this r of sheets is recorded	eport is inc	luded on each s					

## NIS-2 FORM SHEET 2 OF 2

PORM NIS-2 (Back)
9. Remarks Code Case N-416-2 Tracking No. RR-05-093
•
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CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the
rules of the ASME Code, Section XI.
T0-1-0-1-18
Type Code Symbol Stamp N/H
Certificate of Authorization No.
Signed <u>furthCaull FIELD ENGINER</u> Date <u>10/19</u> 20 <u>03</u> Owner or Owner's Designee. Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission Issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Temessee and employed by HSB-CT
of Hart Ford CT. have inspected the components described in this
Owner's Report during the period 9/13/03 to 10/12/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
In this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Bruce M. Earning Commissions TN2534 Inspector's Signature National Board, State, Province, and Endorsements
Date
e procession de la company

						1	NIS-2 FOR	M SH	EET 1 OF 2	
			FORM NIS*2 OWN As Required	VER'S REPORT F by the Provisions		RSORF	REPLACEN	ENT		
	1. Owner	TENN	ESSEE VALLEY AL	JTHORITY	Date	10	15/2	203		
	1	101 Ma	Name rket St., Chattanoog	a, TN 37402	Sheet	1	of	2		
	2. Plant	Watts	Address Bar Nuclear Plant		Unit	Unit 1				
	F	P. O. Bo	Name x 2000, Spring City,	TN 37381	WOR	ORDER	₹# 03-0	1588	9-002	
	3. Work P	erforme	d by TVA MODIFI	CATIONS	Type (		Organization P nbol Stamp		. Job No., etc. N/A	
	<u> </u>	WATT	S BAR NUCLEAR F	lame PLANT	Author	ization N	lo <u>N/A</u>			<u> </u>
		_	zembbA		Expira	tion Date	N/A			
	4. Identific	ation of	system SAFETY	'INJECTION	SYSTEM	N 063				
			Construction Code			·	Addenda	a, <u>N</u>	/A Cod	e Case
	, , , , ,		dition of Section XI	•	•		1989	_		
	6. Identific	ation of	Components Repai	red or Replaced ar	nd Replace	ment Co	mponents	τ	T	ASME
									Repaired,	Code Stamped
	Name of Co	mponent	Name of Manufacturer	Manufacturer Serial N	Nation lo. Board I		Identification	Year Built	Replaced, or Replacement	(Yes or No)
	1-PIPE-06	3-B	N/A	N/A	NVA		N/A	N/A	Replacement	N0
¥	47A400	-L •281	NIA	NIR	NIA	2	NIA	NIA	REPLACEMENT	Nã
			_	_						
				<del></del>						
							<del></del>			<del></del>
				<del></del>	_					-
							<del>-</del>			
	7. Descript	tion of W	/ork Added new E0	CCS vent in the Ho	ot Leg 4 Sa	fety Injec	ction	L	<u> </u>	<u> </u>
	8. Tests C	onducted				ling Pres	sure <b>=</b>	perfor	rice leak test med per WC 5889-002	
	1	1 in., (2)	ental sheets in form information in item red and the number	s 1 through 6 on th	nis report is	Included	l on each s			

\* Add HANGER 1-063-DS1522-102-01 TO SUPPORT 47A400-6-281 TO SUPPORT HIGH POINT

VENDOR LINE

912912003

NIS-2 FORM SHEET 2 OF 2 TRACKING# CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the repair or replacement rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission Issued by the National Board of Boiler and Pressure Vessel inspectors and the State or Province of Texpessee and employed by HSB-cT of Hartfard CT. have inspected the components described in this Owner's Report during the period 9/22/03 to 10/15/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described In this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Inspector's Signature Commissions TN2534

National Board, State, Province, and Endorsements

all res	FORMNIS-2 OW As Require	NER'S REPORT FOI d by the Provisions o	REPAIR The ASM	OR REPLACE Code Séction 2	MENT (I	S	
1. Owner TEN	INESSEE VALLEY A	UTHORITY	Date	9/17/03			
1101 1	Name Market St., Chattano	oga, TN 37402	Sheet	/ of 2			
2. Plant Wat	Address ts Bar Nuclear Plan	Unit	1				
P. O. I	Name Box 2000, Spring Cit		2-015056-00			•	
3. Work Perform	ned by MECHANICAL	Type Cod	Recair Organization le Symbol Stamp	P.O. No.	Job No etc.		
WATTS BAR NUCL SPRING CITY, TN 3	EAR PLANT,PO BOX 2000	Name	Authoriza	tion No	N	l <sub>i</sub> s	
	Address		Expiration	Date .	NIP		
4. Identification	of system STEAM	GENERATOR 2 MI	FW BYP				
(b) Applicable	Edition of Section XI	Utilized for Repairs of the or Replaced and	or Replace	ments	_	mer76 Coo	de Case
Name of Componen		Manufacturer Serial No.	National Board No.	Other Identification	Year	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-CKV-103-0645	,	26305	NA	NIA	1978	Replacment	Ye5
1 bolt	BW/IP	NA	NIA	PW 71039		Replace- ment	NO
1 nut	¥		NIA	7000011-	1	V	Nο
				300			
			•				
- · · · -							
7. Description of	Work Replace	Disc I bold	141	out on be	יממי	et	
8. Tests Conduct	_*			g Pressure	۰F		
11 in., (	2) information in item	of lists, sketches, or s s 1 through 6 on this of sheets is recorded	report is in	cluded on each	vided sheet,	(1) size is 8 and (3) eac	½ in. x h sheet

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9. Remarks
Tracking No# RR-05-099
•
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this <u>nenfacement</u> conforms to the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Of Collin Maintenance Special 77 Date 10/20 20 03
CERTIFICATE OF INSERVICE INSPECTION
i, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel
Inspectors and the State or Province of TENNESSEC and employed by HSB-CT
of HarT Ford CT. have inspected the components described in this  Owner's Report during the period 9/22/33 to 10/21/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
_
Bruu M. Earnigh Commissions TN 2534 Inspector's Signature National Board, State, Province, and Endorsements
Date 10/21 20 03
the analysis and distributed for the company is a source of the graph of the graph and the company of the graph of the company
Commercial Control of the Control

1. Owner TEN	NESSEE VALLEY A	UTHORITY	Date					
1101 Ma	Name arket St., Chattanoo	ga , TN 37402	Sheet _	1 of 2				
2. Plant Watts	Address s Bar Nuclear Plant		Unit Unit 1					
P. O. Bo	ox 2000, Spring City	Work Order 02-009676-002						
3. Work Performe	ed by TVA Modifica		Type Cod	Repair Organization ! le Symbol Stam	P.O. N P N	la Job Na etc /A	•	
Watts Bar Nuclea	ar Plant	Name	Authoriza	tion No N/A				
	Address		Expiration	Date N/A				
I. Identification of	system 074 Res	dual Heat Removal		<u>-</u>				
• • • •	Construction Code		Edition, S		a, I	VA Coo	de Case	
(b) Applicable 8	Edition of Section XI	Utilized for Repairs or	r Replacem	nents 1989				
6. Identification of	Components Repair	red or Replaced and F	Replaceme	nt Components			<del></del> -	
Name of Component	Name of Manufacturer	Manulacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
-SPV-74-531	Kerotest	HX5-9	N/A	N/A	NA	Replaced	YES	
(21-21-21	Kerotest	KP20-2	NIA	MA 19	75	Replacemen	+420	
-SPV 74-531	- 1 -		1		1			
->rv - 14-53[					<u> </u> _			
		NIA	Нт	# 442663	125	Keplace Went	NO	
		NIA	HT	# 442603 NA OC 10/15/03	120%	Keplace Ment	NO	
		NIA	HT	# 442603 10/15/03	139	Keplace west	NO	
		NIA	HT	# 442603 10/15/03	્રજ	Keplace ment	NO	
-517-14-53( Diper		NIA	ItT	# 442603 10/15/03	100%	Keplace swent	NO	
Pipe				# 44,2603 10/15/03	1008	Replace ment	20	
Pipe .	Vork Remove and	<u> ハ                                   </u>		# 442603 10/15/03	Cost	Replace ment	200	
Pipe		replace 1-SFV-74-531		# 44.2603 10/15/03	7,0%	Keplace ment	20	

Appendix IV Page 67 of 100

## NIS-2 FORM SHEET 2 OF 2

LLLL : FORM NIS-2 (Back)
9. Remarks Code Case N-416-2 Tracking No. PR-05-10Z  Application Manufacturer's Data Reports to be Atlanting
The state of the s
•
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. WIA
Signed Of Cillia Maintenance Socialist Date 10/15 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Fewessec. and employed by HSB-CT
of
Owner's Report during the period 9/24/03 to 10/15/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Bruce M. Earnifi Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements
Date
Carlos of the second section section sections and the second section sections are second sections as the second section sectio

NIS-2 FORM SHEET 1 OF 2 FORM NIS-2 OWNER'S REPORT FOR REPAIRS OF REPLACEMENTS
AS Required by the Provisions of the ASME Code Section XI. 10/15/2003 TENNESSEE VALLEY AUTHORITY 1. Owner Date Name 1101 Market St., Chattanooga, TN 37402 Sheet 2. Plant Watts Bar Nuclear Plant Unit Unit 1 P. O. Box 2000, Spring City, TN 37381 WORK ORDER# 03-015889-003 Address
3. Work Performed by TVA MODIFICATIONS Repair Organization P.O. No., Job No., etc. de Symbol Stamp N/A Type Code Symbol Stamp WATTS BAR NUCLEAR PLANT Authorization No N/A Expiration Date -N/A SAFETY INJECTION SYSTEM 063 4. Identification of system 5. (a) Applicable Construction Code ASME SECT. III 19 71 Edition, S73 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 6. Identification of Components Repaired or Replaced and Replacement Components ASME Code Repaired, Stamped (Yes or National Year Replaced, or Built No) Name of Manufacturer Manufacturer Serial No Board No. Other Identification Name of Component 1-PIPE-063-B N/A N/A N/A N/A N/A NO REPAIR NA N/A 74400-6-115 7. Descri 8. Tests

		-	<u></u>					
		:						
n of W	ork Repair	indication i	n ½" pipe in	the weld are	a of weld# 1	-063B-T13	0-4B AN	0
on of W	ATTAC CLASS 1 1: Hydrostat	HING A I Z SUPPOR ic Pneu	72" 8 PI T # 47 P matic No	the weld are PE SUPPAN 1400 - G-/ pminal Opera psi Test	7 70 AN 5. wwo 9 ating Pressu	#3/4€ 5 3/28/03 Inse re ■ per	ervice leaf formed pe	XI Cape k test to be r WO#

NOTE:

NIS-2 FORM SHEET	2 UF 2
FORM NIS-2 (Back)	
9. Remarks CODE CASE N-416-2 TRACKING# RR-05-103 (1/2)/03  Applicable Manufacturer's Data Reports to be Attached	
Applicable Manufacturer's Data Reports to be Attached	
	_·
	Ì
CERTIFICATE OF COMPLIANCE	
AND REPLACEM We certify that the statements made in the report are correct and this <u>repair</u> conforms to the	EN7
repair or replacement	,
rules of the ASME Code, Section XI.	
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A	į
Signed Kunff Courl, FIELD ENGINEER Date 10/15	20 <u>03</u>
Owner or Owner's Designee. Title	
CERTIFICATE OF INSERVICE INSPECTION	
Annual Control of the control of the control of the state	\/
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressu	re vessei
Inspectors and the State or Province of Tennessee and employed by HSB.cT	
of Hart Ford CT. have inspected the components described in	this
Owner's Report during the period 9/22/03 to 10/15/03 and state the	at to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measu	res described
In this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	İ
By signing this certificate neither the inspector nor his employer makes any warranty, expressed	or implied
• • •	
concerning the examinations and corrective measures described in this Owner's Report. Further	
the inspector nor his employer shall be liable in any manner for any personal injury or property da	mage of a
loss of any kind arising from or connected with this inspection.	
Bruce M. Earnigh Commissions TN 2534	
Inspector's Signature Commissions National Board, State, Province, and En	dorsements
Inspector's Signature • Indicate Duald, State, From the Em	10/30/110/10
Date 20_52	ļ
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grade with referring grade and the control of the c	

	EORM NIS	-2 OWNER Required by	S REPORT FOI the Provisions o	R REPAIRS (The ASME	OR REPLACE Gode Sedion X	MENT	San ari		
1. Owner T	ENNESSEE VA	LLEY AUTH	ORITY	Date	10/15/20	3		<del></del>	
110	1 Market St., Ch	Name attanooga, T	N 37402	Sheet _	1 of 2				
. Plant V	Addr Vatts Bar Nuclea	ess r Plant		Unit Unit 1					
P. C	). Box 2000, Spr	Name ing City, TN	37381	03.	-012457-	00	,c		
. Work Perfo	D. Box 2000, Spr ormed by Mod BAR Nuc Addr	SS DIFICATI	IONS	Type Cod	Repair Organization F e Symbol Stamp	2.O. No. N/A	, Job No., etc.		
WATTS	BAR NUC	CEAR /	PLANT	Authorizat	ion No N/A		<del></del>		
				Expiration	Date N/A				
. Identificatio	on of system	SAFET	NJECT	row /	SYSTEM	06	3		
(b) Applica	ble Construction ble Edition of Se on of Component	ction XI Utili	zed for Repairs	or Replacer	nents 1989	a,	1/A CO	de Case	
Name of Compo	nent Name of Man	ufacturer Man	ufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement		
- <u>PIPE-063</u>	'-B N/A	_	N/A	1/A	N/A	M/A	REPAIR	MA	
			·						
<del></del>									
Description	of Work Rep WELL	# 1-00	10A710NS 3A-D077	/DENT/ -19.	1.	NSER	PT OF	AK Tes	
Tests Cond	ucted: Hydrostat Other 🛘		natic D Nomina ps		ressure 💢 🔏		BE PERFOQ 63-61(_41		
11 In.	lemental sheets ., (2) information mbered and the i	in items 1 th	rough 6 on this	report is inc	duded on each s				

Appendix IV Page 7/ of 100

		FORMIN	IS-2 (Back)	
9. Remarks	TRACKING	# RR-05-1	05	N-416-Z
	5002 B181503	Approprie manuactural s	Data Nejona w ba A	aduleu
	. —			•
				•
-				<del></del>
		CERTIFICATE (	OF COMPLIAN	ICE
We certify tha	t the statements mad	de in the report are o	correct and this	:REPAIR conforms to the repair or replacement
rules of the A	SME Code, Section	XI.		
Type Code Sy	mbol Stamp N/A			
Certificate of A	Authorization No.	N/A	· <b>-</b>	
Signed	M. hu () o	Ad Coss Owner's Designee, Title	T. ENGR.	Date 10/15 20 03
	CE	RTIFICATE OF IN	SERVICE INST	PECTION
I, the undersig	ned, holding a valid	commission issued l	by the Nationa	Board of Boller and Pressure Vessel
Inspectors and	the State or Province	e of Tennessez	_ and employe	ed by HSB-CT
of	HONTFORD CT.	hav	ve inspected th	e components described in this
=				and state that to the best
•	-	<u> </u>	_	and taken corrective measures described
	-	•		ME Code, Section XI.
		•		es any warranty, expressed or implied,
	••			is Owner's Report. Furthermore, neither
·	• •	•	• •	ersonal injury or property damage or a
loss of any kind	1 arising from or con	nected with this insp	ection.	•
Ray	. m. E 2	<i></i>	Ta1253	Ų
Inspec	tor's Signature	Commissions	National Boa	rd, State, Province, and Endorsements
Duit	<u> 20</u>	<u> </u>		
• • •	wide a trade to be a construction of the C	· James remark (#3250) personan		e spesial a movement empleasive com la

		NER'S REPORT FOR Lby the Provisions of				ENTE		
1. Owner TEN	INESSEE VALLEY A	UTHORITY	Date 0	9-30-03				
1101 N	Name Market St., Chattanoo	oga, TN 37402	Sheet	/ of	2			
2. Plant Wat	Address ts Bar Nuclear Plant		<del>-</del>	Jnit 1		٠		
P. O. I		y, TN 37381	W/O 02-	015175-00	07			
3. Work Perform	Address ned by MECHANICAL	MAINTENANCE	Type Co	Recair Ordan de Symbol	Stamp	D, No N/A	. Job No., etc.	
P.O. BOX 2000	SPRING CITY,TN 37	Name 381	Authoriza	ation No N	//A			
	Address		Expiratio	n Date N	//A			
4. Identification	of system SYSTEM	072 CONTAINME	NT SPRA					
	_	ASME SEC III 19 80	_	W/81 A	ddenda	Eq VED	Cou	de Case
(b) Applicable	Edition of Section XI	Utilized for Repairs of	Replacer	ments	1957	_		
6. Identification	of Components Repai	red or Replaced and F	Replaceme	ent Compo	neats			
Name of Componer	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Iden		Year Built	Repaired, Replaced, or Replacemen	
1-5NVb-072-4375	· · · · · · · · · · · · · · · · · · ·	14735				V4-	Replaced	NA
	1103					2020		
1-50-6-072-4325C	r PSA	910				17113	Replacement	<del></del>
				ļ				
		·						
7. Description of	Work Replace	SNUBBER						
8. Tests Conduc	Other Pres	neumatic Nomina surepsi	Operating Test Te	g Pressure emp	• •F	:		
11 in	(2) information in Item	of lists, sketches, or cas 1 through 6 on this reorded	eport is in	cluded on	each sh	ded ( eet, :	(1) size is 8 and (3) eac	½ in. x h sheet

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# (# FORM NIS-2 (Back) - # )
9. Remarks TRACKING NO. RR-05-107 -CODE CASE N-416-1 ATT 10/4/-3
Approace maintacant is bate reports to be Attached
•
GERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this Replacement conforms to the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed J Collie Maintenance Spricialist Date 10/16 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ANESSEE and employed by ANTON IN BOUNDED OF have inspected the components described in this Owner's Report during the period 9-30-03 to 0-06-03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 13-33  National Board, State, Province, and Endorsements  Date 120-13
The state of the s

		IER'S REPORT FOR by the Provisions of					
1. Owner TENN	ESSEE VALLEY A	UTHORITY	Date 09	3-30-2003			· -
1101 Ma	rket St., Chattanoo	oga, TN 37402	Sheet	/ of 2			
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1			
P. O. Bo	Name x 2000, Spring Cit	y, TN 37381	W/O 03-0	16364-000			
3. Work Performe	Address d by MECHANICAI	MAINTENANCE	Type Cod	Repair Organization P e Symbol Stamp	.O. No. N/A	. Job No., etc.	
P.O. BOX 2000 S	PRING CITY, TN 37	Name '381	Authoriza	tion No N/A			
	Address		Expiration	Date :N/A			
4. Identification of	system 062 -CV	cs					
5. (a) Applicable C	Construction Code	Sect.III 19 71	Edition, S	372 Addenda	a, n/a	Co	de Case
(b) Applicable E	dition of Section XI	Utilized for Repairs o	Replacem	ients 1989			
6. Identification of	Components Repair	ired or Replaced and F	Replaceme	nt Components			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)
1-FCV-062-0074 -A	FISHER	5726051	N/A	N/A	1977	REPLAC ED	YES
StemiPhis, Cage Seat rong From 2-1-CV	Fisher	5724054	NA	NA	1977	ment	Yes
From 2- FCV	-62-0074						
			ļ				
		,					
7. Description of V	Vork REPLACED	ALVE TRIM ASSY					
8. Tests Conducte	d: Hydrostatic F Other Pres		Operating	Pressure III	) F 0	FF WO 2-0199 FAL-00	78.000
11 in.; (2)	information in item	of lists, sketches, or c as 1 through 6 on this r of sheets is recorded	eport is inc	luded on each s	rided (	(1) size is 8	1/2 in. x

## 03 016364 000

FORM NIS-2 (Back)
9. Remarks TRACKING NO. RR - 05-108
•
· CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>repair or replacement</u> conforms to the rules of the ASME Code, Section XI.
Tules of the Asime Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Of Caller Maintanance Spein list Date 10/9 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Texuessee and employed by HSB-CT
of Hartford CT. have inspected the components described in this
Owner's Report during the period $9/35/03$ to $10/9/03$ and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied.
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Bruce M. Earnigh Commissions TN 2534  Inspector's Signature National Board, State, Province, and Endorsements
Inspector's Signature (Validial Boats, State, Province, and Endorscine)
Date 10/1 20 0 5
to a manufacture support the control of the control

	FORM NIS-2 OW As Require	NER'S REPORT FOR d by the Provisions of	REPAIRS the ASME	OR REPLACEM	ENTS		
1. Owner TE	NNESSEE VALLEY A	UTHORITY	Date 1	0/01/03			
1101	Name Market St., Chattano	oga, TN 37402	Sheet _	/ of 2			
2. Plant Wa	Address itts Bar Nuclear Plant	<u></u>	Unit U	nit 1			
P. O.	Name Box 2000, Spring Cit	y, TN 37381	W/O 03-0	016825-000			
3. Work Perfor	med by MECHANICAL	MAINTENANCE	Type Cod	Repair Organization Pile Symbol Stamp	.O. No. N/A	. Job No., etc.	
P.O. BOX 2000	SPRING CITY,TN 37	Name '381	Authoriza	tion No N/A			
-	Address		Expiration	Date · N/A			
4. Identification	of system SYSTEM	M 062 CVCS PIPI	NG CLAS	S A			
(b) Applicabl	e Edition of Section X	ASME SEC III 19 74 Utilized for Repairs or repairs or replaced and F	Replacen	nents 1989	a, <u>NO</u>	NE Coo	de Case
Name of Compone	nt Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacemen t	ASME Code Stamped (Yes or No)
GLOBE VALVE	KEROTEST	JS2-2	N/A	1-ISV-062- 0564-S	1975	Republican Repuired Repuired	YES
Value Disc	BW/IP	3090815N6	NA	NIA	1994	1	NA
Value Sten	Kerotest	NIA.	NIA	725\$261	1993	V	MA
<u> </u>		· · · · · · · · · · · · · · · · · · ·	-				
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		<u> </u>					
7. Description o	f Work Replaced	stem, disc an	d diapl	hragm			
	Other Pres	sure psi	Test Te		F 0.	PEAFIANE INDEL W 2-01497 1-TRI-6	8-6
11 in.,	(2) Information in item	of lists, sketches, or d is 1 through 6 on this r r of sheets is recorded	eport is ind	duded on each s	naea ( heet, i	and (3) eac	h sheet

FORM NIS-2 (Back)
9. Remarks TRACKING NO. RR- 05- 109
Applicance manipulation a page Labor to na Vitaguica
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CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Aculti Maintenance Specialist Date 10/12 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Tennessee and employed by HSB-ET
of HarTfard CT. have inspected the components described in this  Owner's Report during the period 10/10/3 to 10/12/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described.
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Brue M. Eamings Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements
Date <u>/0 / / ユー</u> 20 <u>/ ジー</u>
Control to the control of the contro

AT 2011	e di con	EORM NIS-2 OWI	VER'S REPORT FOR	REPAI	RSORRI	PLACE	VENT	Ster	TESTONIA.
		As Required	by the Provisions of	(Ine ASA	AE Code S	Section X	p q		
1. Owner	TENN	ESSEE VALLEY AL	JTHORITY	Date		10/14/0:	3		
1	101 Ma	rket St., Chattanoog	ga, TN 37402	Sheet	0	f Z			
2. Plant	Watts	Address Bar Nuclear Plant		Unit	Unit 1				
P	. O. Bo	Name x 2000, Spring City,	TN 37381	wo#	02-01	2607-	.003	, Job No., etc.	
3. Work Pe	rforme	Address d by Mechanical	MAINTENANCE	Type Co	Repair Or ode Symb	ganization F of Stamp	P.O. No. N/A	, Job No., etc.	•
P.O. BOX	2000	d by <u>Mechanical</u> Shing City Th	Vame / 37381	Authoria	zation No	N/A			
		Address		Expirati	on Date	N/A			
4. Identifica	ation of	system SysTe	м 68 STEAM	6e1e1	ator	<del></del>			
(b) Appli	icable E	dition of Section XI	Utilized for Repairs	or Replac	cements	1989	a, <u>NB</u> 	16 t3 Co	ie Case
6. Identifica	ation of	Components Repail	red or Replaced and	Replace	ment Con	iponents	ı	<del> </del>	ASME
Name of Con	nponent	Name of Manufacturer	Manufacturer Serial No.	Nationa Board N		entification	Year Built	Repaired, Replaced, or Replacement	Code Stamped (Yas or No)
I-SGEN-068-	-se¥	Westinghouse	1594	WIOZES	·	t	1875-	Replaced	y'e 3
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~	-			·					
7. Descript	ion of V	Vork <u>Sleeving 7</u>	Tubes	L			!		
8. Tests Co	onducte	d: Hydrostatic 🗆 P Other 💢 Press Eooy ental sneets in form	neumatic   Nomingues   Nomingu	i Test o urawnys	Temp		viusu.	(1) size is 0	
11	i in., (2)	) information in Item	is 1 through 6 on this of sheets is recorder	report is	included	on each :	sheet,	and (3) eac	n sneet

FORM NIS-2 (Back)
9. Remarks
To Use the DD of Use Reports to be Attached
Tracking NO-# RR-05-110
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•
<del></del>
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>PENACEMENT</u> conforms to the
repair or replacement
rules of the ASME Code, Section XI.
Tues Code Cumbal Clamp NVA
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Williams Designer Title Date Oct 14 20 03
Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Tennessee and employed by HSB-c1
of Hartford CT. have inspected the components described in this
Owner's Report during the period 10/1/03 to 10/14/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Brue M. Emigh Commissions TN = 53 4
Inspector's Signature National Board, State, Province, and Endorsements
Date 18/14 20 0 2
STATE OF THE STATE WAS CONTINUED AS A SOUTH COLD OF MANAGEMENT THREE PROPERTY OF THE PARTY OF THE SAME OF THE STATE OF THE SAME OF THE SAM

Owner TENN	IESSEE VALLEY AL	JTHORITY	Date	10/13/03			
1101 Ma	rket St., Chattanoog	ga, TN 37402	Sheet	1 of 2	···		
. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1			
	Name × 2000, Spring City,		Wo I	02-0/2607 Repair Organization Pe e Symbol Stamp	7-00	1	<u></u>
. Work Performe	d by Mechanical	MainTenance	Type Cod	Repair Organization P e Symbol Stamp	N/A	, Job No., etc.	
D.O. BOX 200	O, String City	MainTenance Name TN 37381	Authorizat	ion No N/A			
	7.00.00		-	Date N/A			
. Identification of	system <u>068</u>	SteAN GENELA	ver_				
(b) Applicable E	Edition of Section XI	บักรมา 19 7/ Utilized for Repairs ired or Replaced and	or Replacer	nents 1989	*• <u> </u>	9443 Co.	le Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacement	ASME Ccde Stamped (Yes or No)
5601-068-562	westinshouse	1592	WIOZFT	NA	175	Riplaced	Y
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	Nork	Tulio Plune					
. Description of \	Wela IN	1406 11493					

	FORM NIS-2 (Back)
9. Remarks	
•	Tracking No# RR-05-111.
<del></del>	
	CERTIFICATE OF COMPLIANCE
We cortify the	
	at the statements made in the report are correct and this repair or replacement conforms to the repair or replacement
Type Code S	ymbol Stamp N/A
Certificate of	Authorization No. N/A
Signed	Emmitt Can SIG Specialist Date 180003 20
	CERTIFICATE OF INSERVICE INSPECTION .
I, the undersig	ned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
inspectors and	the State or Province of TENNESSEC and employed by USR-CT
of	have inspected the components described in this
Owners Repo	rt during the period 10/1/03 to 10/13/03 and state that to the best
of my knowled	ge and belief, the Owner has performed examinations and taken corrective measures described
	Report in accordance with the requirements of the ASME Code, Section XI.
y signing this	certificate neither the inspector nor his employer makes any warranty, expressed or implied,
bolicening ine	examinations and corrective measures described in this Owner's Report. Furthermore, neither
ne inspector n oss of any kind	or his employer shall be liable in any manner for any personal injury or property damage or a darising from or connected with this inspection.
	a disting from or connected with this hispaction.
Rom	20 E
Inspec	W. Earneys Commissions 7234  tor's Signature National Board, State, Province, and Endorsements
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	e de la marca de la companya della companya della companya de la companya della c

Address P. O. Box 2000, Spring City, TN 37381 Address Address 3. Work Performed by MECHANICAL MAINTENANCE WATTS BAR NUCLEAR PLANT,PO BOX 2000 Address Address WATTS BAR NUCLEAR PLANT,PO BOX 2000 Address Address Expiration Date Address Expiration Date Address Address Expiration Date N/A  4. Identification of system O15, Steam Generator Blowdown SYSTEM (SGBD)  5. (a) Applicable Construction Code AISC D) Applicable Edition of Section XI Utilized for Repairs or Replacements Name of Component Name of Manufacturer Name of Manufacturer Manufacturer Serial No. Neticnal Board No. Other Identification Built Replaced, or Replaced In SNUB-015-4006162 PSA 3192  MA MA  Neticnal Board No. Other Identification Built Replacement Replaced, or Replaced MENT REPLACED MENT REPLACED MENT REPLACED MENT REPLACED MENT REPLACE MENT				103	10/8/	Date	HORITY	E VALLEY A	ENNES	1. Owner
2. Plant Watts Bar Nuclear Plant P. O. Box 2000, Spring City, TN 37381  Address 3. Work Performed by MECHANICAL MAINTENANCE WATTS BAR NUCLEAR PLANT, PO BOX 2000  Maddress  Address  Expiration Date N/A  Authorization No N/A  Authorization Date N/A  4. Identification of system 015, Steam Generator Blowdown SYSTEM (SGBD)  5. (a) Applicable Construction Code AISC 19 Edition, N/A Addrenda, N/A Code (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989  6. Identification of Component Name of Manufacturer Manufacturer Serial No. Neticnal Board No. Other Identification PSA 20750  MAN MA 1997 Replaced, or Replaced and Replacement Name of Manufacturer Manufacturer Serial No. Other Identification Replacement Name of Manufacturer Name Name Name Name Name Name Name Name				· ·				Name		-
Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. National Board No. Other Identification No. National Pear Replaced, or Replacement Name of Manufacturer Serial No. National Name of Manufacturer Name of Manufacturer Serial No. National Name of Manufacturer Name of Manufacturer Serial No. National Name of Manufacturer Name of Manufacturer Serial No. National Name of Manufacturer Name of Manufacturer Serial No. National Name of Manufacturer Name of Manufacturer Serial No. National Name of Manufacturer Name of Manufacturer Serial No. National Name of Manufacturer Name of Manufacturer Serial No. National Name of Manufacturer Name of Manufacturer Serial No. National Name of Manufacturer Name of Manufacture					•		<u>,</u>	Address		
Address Name WATTS BAR NUCLEAR PLANT,PO BOX 2000 SPRING CITY, TN 37391  Address Expiration Date MA  Authorization No N/A  Expiration Date N/A  Aldenda, N/A  Cod (b) Applicable Construction of Section XI Utilized for Replaced and Replacement Components  Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Manufacturer Manufacturer Serial No. Name of Manufacturer Manufacturer Serial No. Name of Manufacturer Manufacturer Manufacturer Serial No. Name of Component Name of Manufacturer Manufacturer Serial No. Name of Manufacturer Manufacturer Serial No. Name of Manufacturer Manufacturer Serial No. Name of Manufacturer Manufacturer Manufacturer Serial No. Name of Manufacturer Manufacture	<del></del>			5167-009			N 37381	Name		-
WATTS BAR NUCLEAR PLANT, PO BOX 2000  Address  Expiration Date  N/A  4. Identification of system  O15, Steam Generator Blowdown SYSTEM (SGBD)  5. (a) Applicable Construction Code  AISC  19 Edition, N/A Addenda, N/A Cod  (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  1989  6. Identification of Components Repaired or Replaced and Replacement Components  Name of Component  Name of Manufacturer  Manufacturer Serial No.  Netional Board No.  Other Identification  Year Replaced, or Replaced, or REPLACED  NAM MA MIK  REPLACED  ISNUB-015-4005162  PSA  3192  MA  MA  MREPLACE  MENT		. Job No etc	O. No.	anization P	Repair Orga			Address		
Address Expiration Date N/A  4. Identification of system 015, Steam Generator Blowdown SYSTEM (SGBD)  5. (a) Applicable Construction Code AISC 19 Edition, N/A Addenda, N/A Cod (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989  6. Identification of Components Repaired or Replaced and Replacement Components  Name of Component Name of Manufacturer Manufacturer Serial No. National Board No. Other Identification Bullt Replaced, or Replacement I-SNUB-015-4008162 PSA 20750/A MA// REPLACED NIENT REPLACED NIENT REPLACED NIENT REPLACED NIENT REPLACED NIENT NIEN		·	19/74	_	-			1		
4. Identification of system 015, Steam Generator Blowdown SYSTEM (SGBD)  5. (a) Applicable Construction Code AISC 19 Edition, N/A Addenda, N/A Code (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989  6. Identification of Components Repaired or Replaced and Replacement Components    Name of Component   Name of Manufacturer   Manufacturer Serial No.   Ditter Identification   Built Replaced, or Built Replaced, or Built Replaced, or Shubbard No.   September   Shubbard No.   Shubbard No.   September   Shubbard No.   S				————	_					
5. (a) Applicable Construction Code AISC 19 Edition, N/A Addenda, N/A Code (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989  6. Identification of Components Repaired or Replaced and Replacement Components    National   Board No.   Other Identification   Performance				_	•	Generator Blowd	n 015 Stea	n of svs	4 Identificati	
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989  6. Identification of Components Repaired or Replaced and Replacement Components    Name of Component   Name of Manufacturer   Manufacturer Serial No.   Name of Manufacturer Serial No.   Other Identification   PSA   20750   MA   MA   Nit   Replaced, or Replacement	ode Case	A Cor	N/A						-	
Name of Component Name of Manufacturer Manufacturer Serial No.  National Board No. Other Identification Wear Replaced, or Replaced, or Replaced of Replaced of Replaced of Replaced of Replaced	de Case							_		. ,
Name of Component Name of Manufacturer Manufacturer Serial No.  National Board No. Other Identification Replaced, or Replaced, or Replaced, or Replaced, or Replaced, or Replaced, or Replaced REPLACED  NSNUB-015-4006162 PSA 3192 Mr MR  REPLACE- MENT  REPLACE- MENT				oonents	ent Comp	Replaceme	or Replaced and	onents Repai	n of Cor	6. Identificati
Name of Component Name of Manufacturer Manufacturer Serial No. National Board No. Other Identification Built Replaced, or	ASME Code	T			1					
1-SNUB-015-4006162 PSA 20750 MA MA NIK REPLACED 1-SNUB-015-4006162 PSA 3192 MA MA NIK REPLACE-MENT	Stamped (Yes or	Replaced, or								
PSA 3192		<del></del>		ntification	}	<del>                                     </del>		of Manufacturer		
1.SNUB.015.4006162 MAR 7779 MENT	<del> </del>	REPLACE.			Mr		32		De	
'. Description of Work REPLACED SNUBBER	14		1999		MA	Mr				I-SNUB-015-400
'. Description of Work REPLACED SNUBBER									_	
'. Description of Work REPLACED SNUBBER	<u></u>							•		
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7. Description of Work REPLACED SNUBBER										
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7. Description of Work REPLACED SNUBBER	<u></u>									<del></del>
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3. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure  *Other X Pressurepsi Test Temp*F			• <b>=</b>							3. Tests Con
* 1-TR1-0-7 *OTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is o					• -			TR1-0-7	•	

FORM NIS-2 (Back)
9. Remarks
TRACKING # RR- 05-113 286 10/4/09
•
CERTIFICATE OF COMPLIANCE : .
We certify that the statements made in the report are correct and this replacement conforms to the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Oralli Maintenance Specialist . Date 10/8 20 63
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Temessee and employed by HSB-CI
of have inspected the components described in this
Owner's Report during the period 10/4/03 to 10/8/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
In this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Inspector's Signature Commissions Two 534  National Board, State, Province, and Endorsements
Date 10/8 20/05
TO PRINCE OF THE CONTROL OF THE CONT

NIS-2 FORM SHEET 1 OF 2

	EORM-NIS-2 OW	VER'S REPORT FOR	REPAIRS			CET TOP 2	
		by the Provisions of					
1. Owner TENN	NESSEE VALLEY A	UTHORITY	Date	10/18/2003	<u>}</u> _		
1101 Ma	Name arket St., Chattanoog	ja, TN 37402	Sheet _	1 of	2		
2. Plant Watts	Address Bar Nuclear Plant		Unit U	Init 1			
P. O. Bo	Name ox 2000, Spring City	TN 37381	WORK O	RDER# 03-0	01374	4-000	
3. Work Performe	d by TVA MODIFI	CATIONS	Type Cod	Repair Organization P le Symbol Stamp	,O, No. )	. Job No., etc. ' N/A	
WATT	S BAR NUCLEAR	lame PLANT	Authoriza	tion No N/A			
	Address		Expiration	n Date N/A			
4. Identification of	system SAMPLI	NG SYSTEM	043				
(b) Applicable I	Edition of Section XI	ASMESECT.III 19 71 Utilized for Repairs or Replaced and F	r Replacen	nents 1989	- N	/A Cod	le Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-TUBE-043-B	N/A	N/A	N/A	N/A	N/A	REPAIR	N0
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<del></del>		<u> </u>	<u> </u>				<u> </u>
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<del></del>			1				
7. Description of V		ions in 3/8" tubing coung PT of welds.	upling weld	s 1-043A-T013-6	5A an	d -73 which	was
	Other Pressental sheets in form ) information in item	neumatic Nomina surepsi of lists, sketches, or o s 1 through 6 on this of sheets is recorded	Test Tei drawings m report is ind	mp *F // nay be used, prov cluded on each s	i WE . rided (	PET FOLIM 02-05-078 (1) size is 81 and (3) each	ACO Vin. X

NIS-2 FORM SHEET 2 OF 2 TRACKING# RR -05-114 9. Remarks CODE CASE N-416-2 CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this <u>repair</u> conforms to the repair or replacement rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennesses and employed by HSB-CT of HarTfayd CT. have inspected the components described in this Owner's Report during the period 15/7/53 to 10/18/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report In accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied. concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection. Inspector's Signature Commissions TV2534

National Board, State, Province, and Endorsements

		VEOGENEES-	NDF4**			<u>EET 1 OF 2</u>	9.00.
		NER'S REPORT FOR I by the Provisions of					
1. Owner TEN	NESSEE VALLEY A	UTHORITY	Date	10/17/2003	3		
1101 M	Name larket St., Chattanoo	ga, TN 37402	Sheet	1 of	2		
2. Plant Wat	Address ts Bar Nuclear Plant		Unit U	Init 1			
P. O. B	Name ox 2000, Spring City	TN 37381	WORK O	RDER# 03-0	16942	2-000	
3. Work Perform	ed by TVA MODIFI	CATIONS	Type Cod	Recair Organization Pile Symbol Stamp	.O. No. O	, Job No., etc. N/A	
WAT	TS BAR NUCLEAR	Name PLANT	Authoriza	ition No N/A	_		
	Address		Expiration	n Date N/A			
4. Identification o	of system CVCS (	SEAL WATER INJEC	•	SYSTEM 062	<u> </u>	<del></del>	
5. (a) Applicable	Construction Code	ASME SECT. III 19 71	Edition, S	S73 Addenda	a, N	/A Cod	le Case
(b) Applicable	Edition of Section XI	Utilized for Repairs o	r Replacen	nents 1989		<del></del>	
5. Identification o	of Components Repai	red or Replaced and F	Replaceme	nt Components			
Name of Component			National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PIPE-062-B	N/A	N/A	N/A	N/A	N/A	REPAIR	No
			<del> </del>		-		
<del></del>	<del> </del>						
	ļ <u>-</u>		<del> </del>		<b> </b>		<del></del>
	-						<del></del>
			<u> </u>				
			ļ				
. Description of	Work REMOVAL O	F INDICATION IN 1° E	DIAMETER	PIPE REE	ادات	~#	<u> </u>
L 4.		25-BMR-7A wm			*7CL	<u> </u>	
. Tests Conduct	ed: Hydrostatic P	neumatic Nomina	I Operating	Pressure =			
11 in., (	2) information in item	of lists, sketches, or c s 1 through 6 on this r of sheets is recorded	report is inc	cluded on each s	rided ( heet,	(1) size is 83 and (3) each	2 in. x i sheet

## NIS-2 FORM SHEET 2 OF 2

LUL L.
9. Remarks Code Case N-416-2 Tracking No. RR-05-115
Subseque management à Date Lébour en se vitamien
•
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this <u>repair</u> conforms to the
repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
Signed Luft Cuul FIELD ENGE Date 10/19 20 03
Owner or Owner's Designee. Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Tennessee and employed by HSB-CT
of have inspected the components described in this
Owner's Report during the period 10/7/03 to 10/19/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Inspector's Signature Commissions 7v2534  National Board, State, Province, and Endorsements
Date /0//7 20 0 3
The state of the s

1. Owner	TENN	ESSEE VALLEY A	UTHORITY	Date	10-	17-0	3	
1	101 Ma	Name rket St., Chattanoo	ja , TN 37402	Sheet _	/_ of _			
2. Plant	Watts	Address Bar Nuclear Plant		Unit U	nit 1			
þ	. O. Bo	Name x 2000, Spring City,	TN, 37381	Work Ord	ler 03-0158	89-007		
3. Work Pe	erforme	d by TVA Modification	tions	Type Cod	Repair Organiz e Symbol S	ation P.O. N tamp N	lo., Jcb No., etc /A	<b>.</b>
Watts Bar	Nuclea		Vame	Authoriza	tion No N/	Α	•	
		Address		Expiration		A		
4. Identifica	ation of	system 063 SIS(	SAFETY INJECTION	SYSTEM)				
		Construction Code		Edition, 7		denda, 1	VA Co	de Case
• • • • •			Utilized for Repairs or			989		
6. Identifica	ation of	Components Repai	red or Replaced and F	Replaceme	nt Compone	ents		ASME
Name of Con	nponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identific	Year	Repaired, Replaced, or Replacement	Code Stamped (Yes or
47A435-8-7		N/A	N/A	N/A	N/A		Replaceme	
I-PIPE-DE	63-B	N/A	N/A	NA	14/4	W/A	REPAIR	NO
						_		
				1				
				·				
				•				
7. Descripti	on of W	ork ADD SYSTE	И 063 SUPPORT TO	EXISTING	SAFETY IN	JECTIO	N SUPPOR	т.
7. Descripti	on of W	REPAIR OF	M 063 SUPPORT TO	wews ,	صِہ ن	INSE	QVICE LE	PAIC TE
`		REPAIR OF	INDICATIONS ON A - OB I AND - O	wews ,	לארט ביונים או	INSE	60KE LE	PAIC TE

## NIS-2 FORM SHEET 2 OF 2

FORMINIS-2 (Back)+
9. Remarks Code Case N-416-2 Tracking No. RR-05-1/9 2/C 10/12/03
Applicable Manuacturer's Data Reports to be Amacrea
-
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement / REPAU conforms to the repair or replacement rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA
Certificate of Authorization No. NA
Signed Signed FIELD ENGINEER Date 10-17 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Texassee and employed by HSE-cT
of HarTford CT have inspected the components described in this
Owner's Report during the period 10/12/03 to 10/17/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
In this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Bruce M. Earnigh Commissions TV 2534 Inspector's Signature National Board, State, Province, and Endorsements
Date 10/17 2003
TOTAL TO THE PROPERTY OF THE P

eren gen		NER'S REPORT FOR d by the Provisions of				TS		
1. Owner TEN	NESSEE VALLEY A	UTHORITY	Date	10/17/2023	3			
1101 M	Name arket St., Chattanoo	ga , TN 37402	Sheet	1 of 2			-	
2. Plant Watt	Address s Bar Nuclear Plant		Unit L	Init 1			-	
P. O. Bo	Name ox 2000, Spring City	, TN, 37381	Work Or	der 03-015889-0	09			
3. Work Performs	Address ed by TVA Modifica	tions	Recair Organization P.O. No., Job No., etc. Type Code Symbol Stamp N/A					
   Watts Bar Nucle:	ar Plant	Name	Authorization No N/A					
	Address		Expiration	n Date N/A	-		_	
4. Identification of	system 015 STE	AM GENERATOR BL	OWDOW	1/067 EL	کرر	ت		
(b) Applicable I		AISC 19 73 Utilized for Repairs of red or Replaced and F	•	nents 1989	· –	N/A Cod	de Case	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Bull		ASME Code Stamped (Yes or No)	
47A400-6-118	N/A	N/A	N/A	N/A	NA	Replaceme nt	No	
474450-21-81	NA	NIA	NJA	NA	NA	Replacemen	r No	
			•					
7. Description of V		M 063 SUPPORT TO MO EXISTING ER			RATO	DR BLOWD	OWN	
8. Tests Conducte	d: Hydrostatic P Other Press		Operating Test Te	Pressure D	/- 'F.			
11 in., (2	) information in Item	of lists, sketches, or d s 1 through 6 on this ro of sheets is recorded	eport is inc	luded on each s				

Appendix IV Page 9/ of 100

## NIS-2 FORM SHEET 2 OF 2

# ###### FORMNIS-2:(Back)
9. Remarks Tracking No. RR-05-120 Applicable Manufacturers Data Reports to be Attached
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CERTIFICATE OF COMPLIANCE ·
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the repair or replacement
rules of the ASME Code, Section XI.
/4
Type Code Symbol Stamp
Certificate of Authorization No.
Signed
Owner or Owner's Desidnee, 1 itie
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Tenuesse and employed by HSB-CT
of Hartford CI- have inspected the components described in this
Owner's Report during the period 10/12/03 to 10/17/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Inspector's Signature Commissions Tv2534  National Board, State, Province, and Endorsements
•
Date 10/17 2003
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NIS-2 FORM SHEET 1 OF 2

	FORM NISCHOW	VER'S REPORT FOR	PEPAIDS	OD DEDLACEM			7000
		I by the Provisions of					
1. Owner TENN	ESSEE VALLEY A	JTHORITY	Date	10/17/	03		
1101 Ma	rket St., Chattanoog	ja, TN 37402	Sheet	1 of	2		
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1			
P. O. Bo	x 2000, Spring City,	TN 37381	WORK O	RDER# 03-0	16867	7-000	
3. Work Performed	Address d by TVA MODIFI	CATIONS	Type Cod	Recair Organization P e Symbol Stamp	.O. No	Job No., etc. N/A	
WATT	S BAR NUCLEAR	Name PLANT	Authorizat	lion No N/A			
	Address		Expiration	Date N/A			
4. Identification of	system PRIMAF	RY WATER SYSTEM	/ SY	STEM 081			
5. (a) Applicable C	construction Code	ASME SECT. III 19 71	Edition, S	373 Addenda	a, N	/A Cod	e Case
(b) Applicable E	dition of Section XI	Utilized for Repairs of	Replacem	ients 1989			,
6. Identification of	Components Repai	red or Replaced and F	Replaceme	nt Components			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PIPE-081-B	N/A	N/A	N/A	N/A	N/A	Replacement	7/50
12 551 2		<u> </u>		<u> </u>		Replacement	
			:				
7. Description of W	/ork Fabricate and 1-03-019-081	install new name plat	e for 3" Pri	mary Water pipir	ng per	TACF#	
8. Tests Conducted	d: Hydrostatic P			Pressure D			
11 in., (2)	information in item	of lists, sketches, or c s 1 through 6 on this r of sheets is recorded	eport is inc	luded on each sl	ided ( heet, i	(1) size is 81 and (3) each	¼ in. x ı′sheet

NIS-2 FORM SHEET 2 OF 2 9. Remarks TRACKING# CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the repair or replacement rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. 20 03 **CERTIFICATE OF INSERVICE INSPECTION** I, the undersigned, holding a valid commission Issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Temessee and employed by HSB-CT of <u>Hartford</u> CT. have inspected the components described in this to 10/17/23 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Inspector's Signature Commissions TN2534

National Board, State, Province, and Endorsements

NIS-2 FORM SHEET 1 OF 2

	FORM NIS 2 OW	NER'S REPORT FOR	PEDAIDO			CET TOP 2	THE PARTY OF THE P
		by the Provisions of					7
1. Owner TENN	IESSEE VALLEY A	UTHORITY	Date	10/15/200	13_		
1101 Ma	arket St., Chattanoog	ja, TN 37402	Sheet	1 of	2		
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1			
P. O. Bo	Name ox 2000, Spring City,	TN 37381	WORK O	RDER# 03-0	15889	9-001	_
3. Work Performe	d by TVA MODIFI	CATIONS	Type Cod	Repair Organization P le Symbol Stamp	.O. No.	Job No., etc. N/A	
WATT	S BAR NUCLEAR	Name PLANT	Authoriza	tion No N/A			
Address			Expiration	Date N/A			
4. Identification of	system SAFET	(INJECTION S	SYSTEM 0	• —	-		
(b) Applicable E	Edition of Section XI	ASME SECT. III 19 71  Utilized for Repairs of red or Replaced and F	Replacen	nents 1989	a, <u>N</u>	<u>/A</u> Cod	le Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PIPE-063-B	N/A	N/A	N/A	N/A	N/A	Repair	N0
		•					
						-	
	l						<u> </u>
7. Description of V	·	near Indication in the t		1-063B-T104-08	A fou	nd during fir	ial PT.
8. Tests Conducte	d: Hydrostatic P		l Operating	Pressure 🔳 p	erfon	ice leak test ned per WC 5889-005	
11 in., (2)	) information in item	of lists, sketches, or c s 1 through 6 on this r of sheets is recorded	eport is ind	luded on each s		and (3) each	

NIS-2 FORM SHEET 2 OF 2 TRACKING# *22-05-12*2 9. Remarks CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this <u>repair</u> conforms to the repair or replacement rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by #SB-CT of \_\_\_\_\_\_ HArT Ford CT . \_\_\_\_\_ have inspected the components described in this Owner's Report during the period 9/29/03 to 10/15/03 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate nelther the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Bruce M. Earnis Commissions TN2534
Inspector's Signature V National Board, State, Province, and Endorsements

	-2 OWNER'S REPORT FOR Required by the Provisions of						
1. Owner TENNESSEE VA	LLEY AUTHORITY	Date 10	/15/03		************		
1101 Market St., Ch	Name attanooga, TN 37402	Sheet	/ of Z				
2. Plant Watts Bar Nuclea		Unit Unit 1					
P. O. Box 2000, Spi	Name ring City, TN 37381	W/O 03-0	17997-000			•	
3. Work Performed by MECH		Repair Organization P.O. No., Job No., etc. Type Code Symbol Stamp N/A					
P.O. BOX 2000 SPRING CIT	Name Y,TN 37381	Authorizat	ion No N/A				
Add	Expiration	Date ·Ņ/A					
4. Identification of system	SYSTEM 062 CVCS						
5. (a) Applicable Construction				a, NO	NE Co	de Case	
(b) Applicable Edition of Se	ction XI Utilized for Repairs o	r Replacem	ents 1989		<del></del>		
6. Identification of Component	s Repaired or Replaced and F	Replaceme	nt Components				
Name of Component Name of Man	ufacturer   Manufacturer Serial No.	National Board No.	Other Identification		Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)	
FLOW FISHER	5909861	2542	1-FCV-62-	1977	REPLACED	YES	
CONTROL VLV		1_1	0089				
, \	5909863	1	W.	1977	Replace-	res	
Sheplaced Cage & b	onnet 1						
					•		
7. Description of Work <u>Reg</u>	laced valuetivité	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	From Us	(Cox	je & boni	net)	
8. Tests Conducted: Hydrosta Other	atic Pneumatic Nomina Pressure psi		Pressure 🔀	F			
11 in., (2) information	s in form of lists, sketches, or on this in items 1 through 6 on this in number of sheets is recorded	report is inc	luded on each s				

FORM NIS-2 (Back)
9. Remarks TRACKING NO. RR - 05 - 124 CODE CASE N-416-1
Applicable Manufacturar's tiets Reports to be Attached
<del></del>
: CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this Replacement conforms to the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A
OO(1/2)
Signed (1 Alle Maintenance Delialist Date 10124 20 03
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Texnessee and employed by HSB-CT
of
Owner's Report during the period 16/16/03 to 10/29/03 and state that to the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
in this strings and belief, the Owner has performed examinations and taken contecute incasors associated in the
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
he inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
B. m. E. 1
Inspector's Signature Commissions FN 3.534  National Board, State, Province, and Endorsements
•
Date 10/29 20 03
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Company to the Control of the Contro
<del></del>

7.7	As Require	NER'S REPORTIEOR Uby the Provisions of	the ASME	Code Section X	CNI	C .eess	
1. Owner TENN	ESSEE VALLEY	Date 1	0-17-2003				
1101 Market St., Chattanooga, TN 37402			Sheet _	/ of 2			
2. Plant Watts Bar Nuclear Plant			Unit U	nit 1			
P. O. Box 2000, Spring City, TN 37381			W/O 03-018085-000 .				
3. Work Performed by MECHANICAL MAINTENANCE			Repair Organization P.O. No., Job No., etc. Type Code Symbol Stamp N/A				
P.O. BOX 2000 \$	Authorization No N/A						
	Expiration Date . N/A						
4. Identification of	system 068 -RE	ACTOR COOLANT					
(b) Applicable E		AISC 19 n/a Utilized for Repairs of red or Replaced and F	Ţ	nents 1989	a, <u>n/a</u>	a Co	de Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)
1-SNUB-068- 88363	PSA	20678	N/A	N/A		REPLAC	
1-SNUB-068- 68363	PSA	1886	N/A	N/A		REPLAC MENT	
		•					···
. Description of W	ork REPLACED S	NUBBER					
	* Other · Press 1-7/11-0-7	sure WA nsi		יו אוא סח			
^	information in item	of lists, sketches, or d s 1 through 6 on this r of sheets is recorded	eport is inc	luded on each sl	ided ( neet,	(1) size is 8 and (3) each	½ in. x h sheet

FORMNIS-2 (Back)						
9. Remarks TRACKING NO. RR OF -125 CODE CASE N-416-1 - 817-10/18/03						
•						
•						
CERTIFICATE OF COMPLIANCE .						
We certify that the statements made in the report are correct and this replacement conforms to the repair or replacement						
rules of the ASME Code, Section XI.						
Type Code Symbol Stamp N/A						
Certificate of Authorization No. N/A						
Signed ENNE Cas Souther Prog. Mar., Date 10/18 20 03						
CERTIFICATE OF INSERVICE INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel						
inspectors and the State or Province of Terressee and employed by HSB-CT						
of Hartford CT- have inspected the components described in this						
Owner's Report during the period 10/18/03 to 10/19/03 and state that to the best						
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described						
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.						
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,						
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither						
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a						
loss of any kind arising from or connected with this inspection.						
Brue M. Earry Commissions TU 2534						
Inspector's Signature National Board, State, Province, and Endorsements						
Date 10/17 20 0.3						
and the first of the second control of the s						